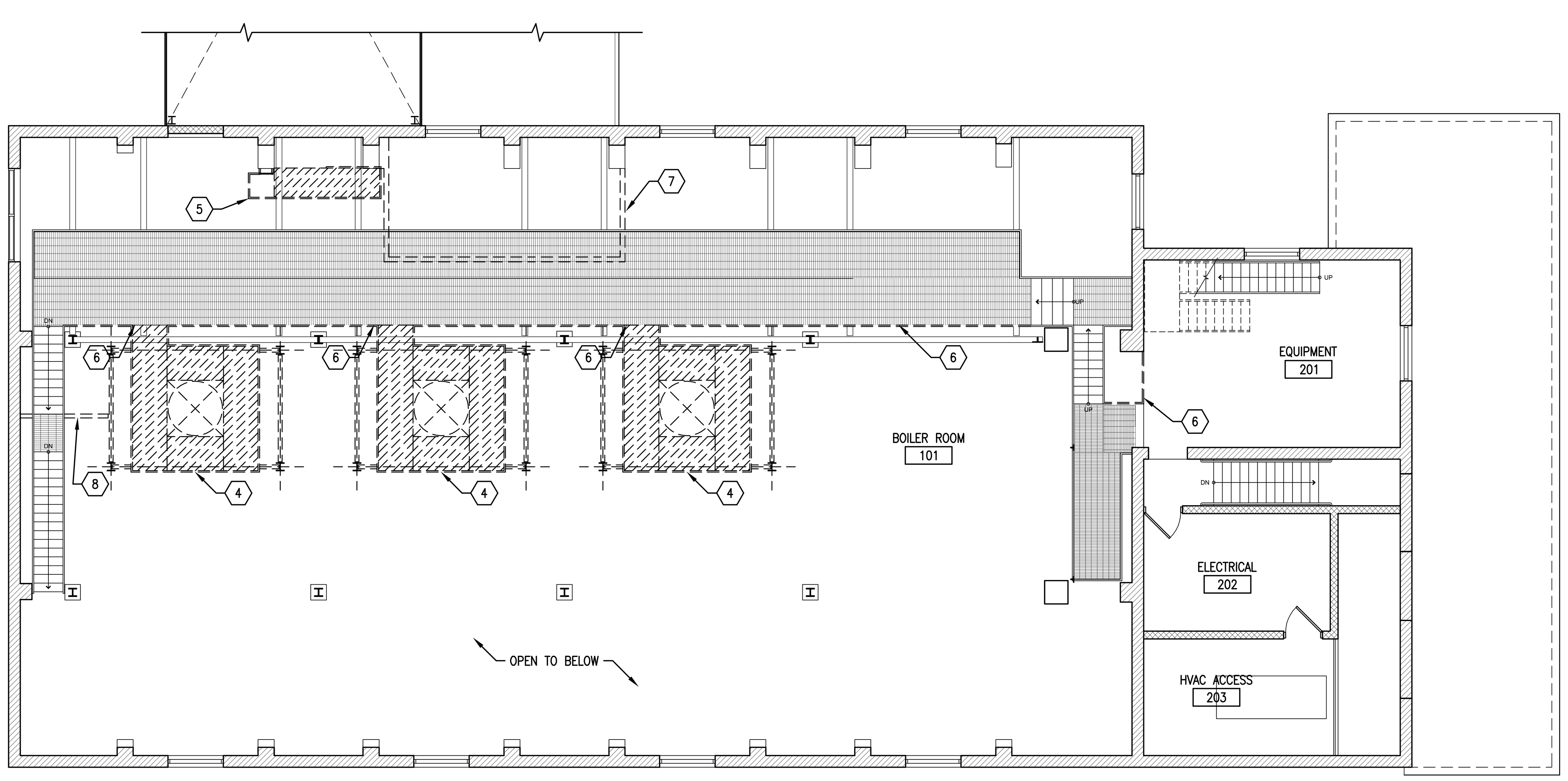
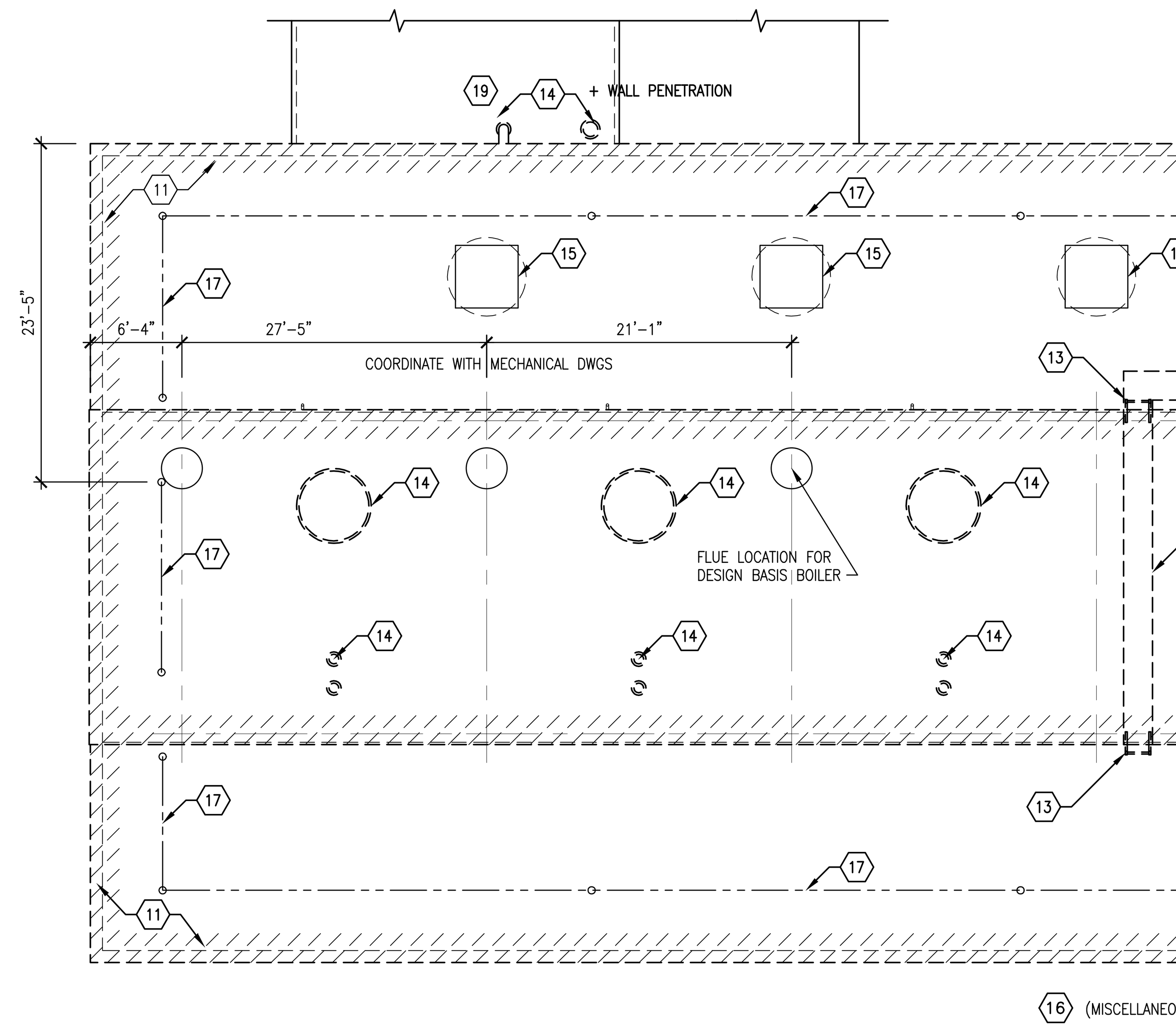
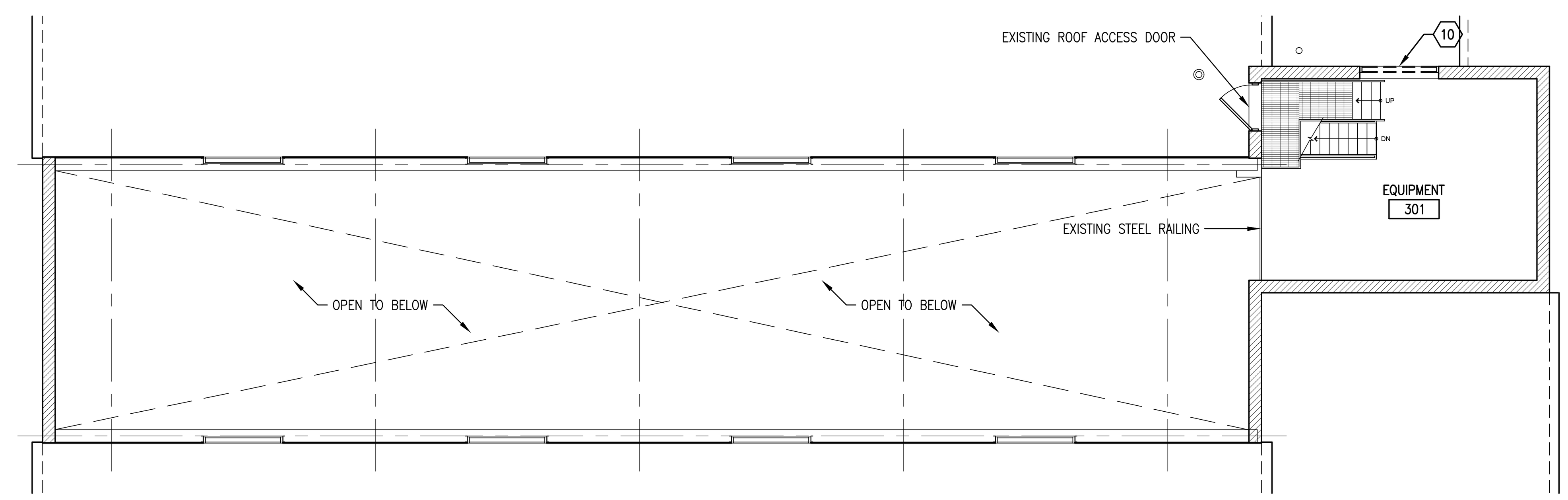


2 SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

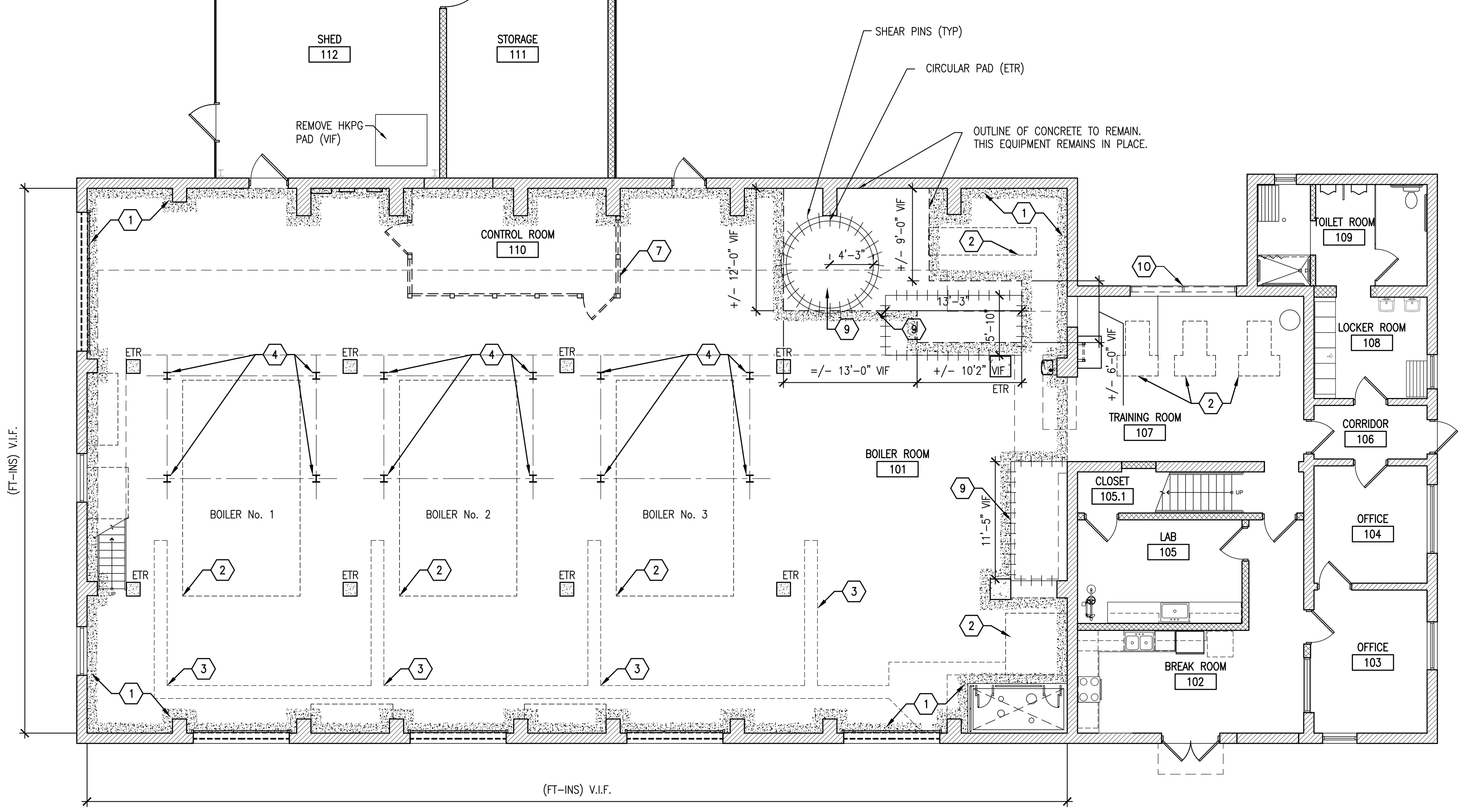


4 ROOF LEVEL DEMOLITION PLAN
1/8" = 1'-0"

EXISTING ROOF DECK: GYP– CONCRETE PLANK. REMOVE PLANK IN WHOLE PIECES FOR PENETRATIONS GREATER THAN 4' DIAMETER.
REPLACE DECK WITH METAL DECK, MECHANICALLY ATTACHED (WR 1.5–20) INSULATED WITH R–22 INSULATION (OR GREATER)



3 THIRD FLOOR/CLERESTORY DEMOLITION PLAN
1/8" = 1'-0"



1 GROUND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

00 DEMOLITION NOTES:

1. REMOVE EXISTING CONCRETE SLAB THROUGHOUT BOILER ROOM. EXCEPT WHERE NOTED OTHERWISE
2. REMOVE EXISTING RAISED CONCRETE PAD.
3. REMOVE EXISTING CONCRETE TRENCH.
4. REMOVE EXISTING BOILER PLATFORM INCLUDING STEEL POSTS, BEAMS, AND RAILINGS. REMOVE TOP OF PIER DOWN TO 10" BELOW FINISHED FLOOR.
5. REMOVE EXISTING VALVE ACCESS PLATFORM INCLUDING STEEL SUPPORTS, RAILINGS, AND LADDER.
6. REMOVE EXISTING RAILING.
7. REMOVE EXISTING CONTROL ROOM.
8. PROVIDE SUPPORT FOR EXISTING STAIR PRIOR TO REMOVAL OF BOILER #1 PLATFORM. SEE STRUCTURAL.
9. EXISTING EQUIPMENT PAD TO REMAIN. PROVIDE REBAR SHEAR PINS AT 2'–0" O.C., #6, TO TIE THE CONCRETE SLAB TO EXISTING. SHEAR PINS SHALL EXTEND MIN 6" INTO CONCRETE. USE GROUT TO SECURE INTO EXISTING CONCRETE.
10. REMOVE EXISTING METAL LOUVER
11. REMOVE EXISTING ROOFING TO DECK, INCLUDING BALLAST, MEMBRANE, INSULATION, BLOCKING, FASCIAE, TRIM, AND FLASHING. DEPOSIT BALLAST ON SITE AT OWNER'S DIRECTION.
12. REMOVE EXISTING STEAM WHISTLE AND ASSOCIATED PITCH POCKET.
13. REMOVE EXISTING ROOF METAL LADDERS AND STORE FOR RE–INSTALLATION FOLLOWING ROOF ALTERATIONS.
14. EXISTING ROOF PIPE PENETRATION TO BE REPAIRED.
15. EXISTING ROOF PENETRATION TO REMAIN.
16. CUT OPENING AS REQUIRED FOR PROPOSED ROOF PENETRATION – SEE MECHANICAL DRAWINGS.
17. EXISTING FALL PROTECTION CABLE SYSTEM TO REMAIN. REMOVE AND STORE CABLE TO PREVENT DAMAGE DURING DEMOLITION AND RE–ROOFING.
18. REMOVE PAVERS – PLACE IN STORAGE LOCATION AT OWNER'S DIRECTION.
19. REPAIR MASONRY WALL BY "TOOTHING" BRICKS INTO OPENING.
20. EXISTING SLAB THICKNESS VARIES. THICKNESS CAN BE 18" THICK. RAILROAD STEEL RAILS ARE KNOWN TO BE EMBEDDED.
21. PLUG ABANDONED PIPE.

ABBREVIATIONS:

ETR EXISTING TO REMAIN

GENERAL NOTE:

1. COORDINATE WITH MECHANICAL DRAWINGS

NORTH

Revisions:	Date

CONSULTANTS:

STATE OF WEST VIRGINIA MARK D SHERMEYER NO. 4409 REGISTERED ARCHITECT

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Drawing Title	ARCHITECTURAL DEMOLITION PLANS
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
Checked	
Drawn	
Project Number	613–12–501
Building Number	320
Drawing Number	320–AD101
Dwg.	9 of 44

Office of Construction and Facilities Management
Department of Veterans Affairs

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/Volumes/Groups/saa/Project Files-active/VA Martinsburg - IDIQ Boiler Plant Upgrade 12-8103 PH5/05 Drawings/AD101.dwg, Tue Oct 22 18:29:37 2013

THE CONTRACTOR SHALL PLACE TOPSOIL, TO A MINIMUM OF 4 INCHES, IN THOSE AREAS WHICH HAVE BEEN DISTURBED BY WORK.

IT SHALL BE RAKED AND TRIMMED TO TRUE LINES, AND SHALL BE FREE FROM UNSIGHTLY VARIATIONS. IF SEEDING IS NOT POSSIBLE, SWALES AND ALL OTHER DISTURBED AREAS THAT WOULD NORMALLY BE SEEDED MUST BE COVERED WITH JUTE MATTING UNTIL SEEDING IS EFFECTIVE.

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON GERMINATION PERIODS. MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

TEMPORARY SEEDING

1. SEEDBED PREPARATION – LOOSEN UPPER 3 INCHES BY DISCING, RAKING, OR OTHER ACCEPTABLE MEANS.
2. SEEDING – FOR THE PERIOD OF MARCH 1 THRU OCTOBER 31 APPLY 10 LBS./1,000 SQ. YDS. "FAST GROW" ANNUAL RYEGRASS AND FOR THE PERIOD OF NOVEMBER 1 THRU FEBRUARY 28 APPLY 10 LBS./1,000 SQ.YDS. WINTER RYEGRASS.
3. APPLY LIME, FERTILIZER, AND MULCH AS FOLLOWS: PULVERIZED AGRICULTURAL LIMESTONE, 1 TON/ACRE; 5-5-5 COMMERCIAL ANALYSIS FERTILIZER, 1,000 lbs/ACRE; MULCH, 3 TONS/ACRE.

PERMANENT SEEDING & MULCHING

1. SITE PREPARATION
 1.1. INSTALL EROSION CONTROL PRACTICES SHOWN ON PLAN.
 1.2. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, ANCHORING AND MAINTENANCE.
2. SEEDBED PREPARATION

FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 2 INCHES. THE TOP LAYER OF SOIL SHALL BE LOOSENED BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

3. SOIL AMENDMENTS

APPLY 4 TONS/ACRE OF PULVERIZED AGRICULTURAL LIMESTONE, 1000 LBS/ACRE. OF 10-20-20 COMMERCIAL ANALYSIS FERTILIZER.

4. SEEDING

SEED MIXTURE	%BY WEIGHT	PURITY	MINIMUM % GERMINATION
MARQUIS KENTUCKY BLUEGRASS	50	98	85
RIVIERA PERENNIAL RYEGRASS	30	95	85
PENNLAWN RED FESCUE	20	98	85

APPLY SEED AT A MINIMUM OF 20 LBS. PER 1,000 S.Y. SPECIFIC SEED MIX TO BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL. PERMANENT SEEDING TO BE DONE BETWEEN MARCH 15 AND OCTOBER 15 AND PREFERRED PERIODS ARE MARCH 15 TO JUNE 1 AND AUGUST 1 TO OCTOBER 15.

NOTE: EQUIVALENT SEED MIXTURES AND APPLICATION RATES MAY BE USED PROVIDED THEY ARE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

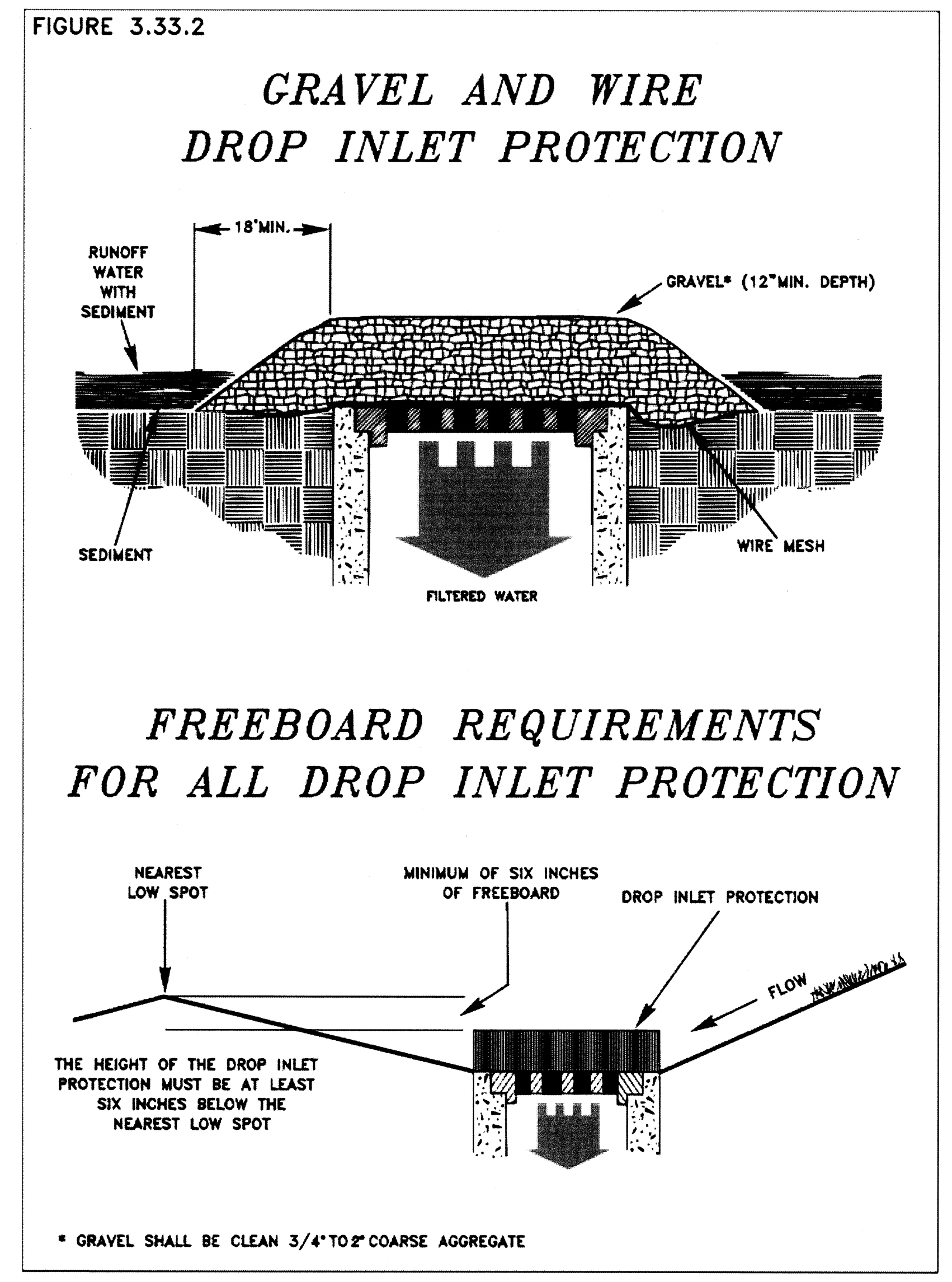
5. MULCHING

CLEAN HAY OR STRAW. APPLY MULCH UNIFORMLY AT A MINIMUM RATE OF 3 TONS/ACRE FOR TEMPORARY AND PERMANENT SEEDING. PROPERLY ANCHOR THE MULCH. MULCHING MUST ALSO BE PROVIDED FOR THE STABILIZATION OF DISTURBED AREAS DURING THE NON-GROWING SEASON.

6. IRRIGATION

IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED, IF FEASIBLE. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON IN ABNORMALLY DRY OR HOT SEASONS OR ON ADVERSE SITES.

7. MAINTENANCE
 7.1. IRRIGATION – IF SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION, IF FEASIBLE.
 7.2. REPAIRS – INSPECT ALL SEED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE.
  7.2.1. IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED.
  7.2.2. IF STAND IS OVER 60% DAMAGE, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS.
8. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.



3.33-8

GENERAL NOTES

1. TOPOGRAPHY IS BASED N FIELD SURVEY BY FIRST CAPITAL ENGINEERING ON AUGUST 1, 2011.
2. FIRST CAPITAL ENGINEERING DOES NOT GUARANTEE THE ACCURACY OF THE LOCATIONS FOR EXISTING SUBSURFACE UTILITY LINE, STRUCTURES ETC. SHOWN ON THE PLANS, NOR DOES FIRST CAPITAL ENGINEERING GUARANTEE THAT ALL SUBSURFACE UTILITY LINES, STRUCTURES, ETC. ARE SHOWN.

   CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATIONS OF ALL SUBSURFACE UTILITY LINES, STRUCTURES, ETC. BEFORE THE START OF WORK.

   MISS UTILITY OF WEST VIRGINIA, INC. CONFIRMATION NUMBER IS 112270225.
3. VERTICAL DATUM FOR THE SITE IS NAVD 88, BENCHMARK: JV4113
4. SITE BENCHMARK IS FINISH FLOOR ELEVATION AT SOUTHEAST DOORWAY OF BUILDING 320 (SEE PLAN), ELEVATION = 489.91'.

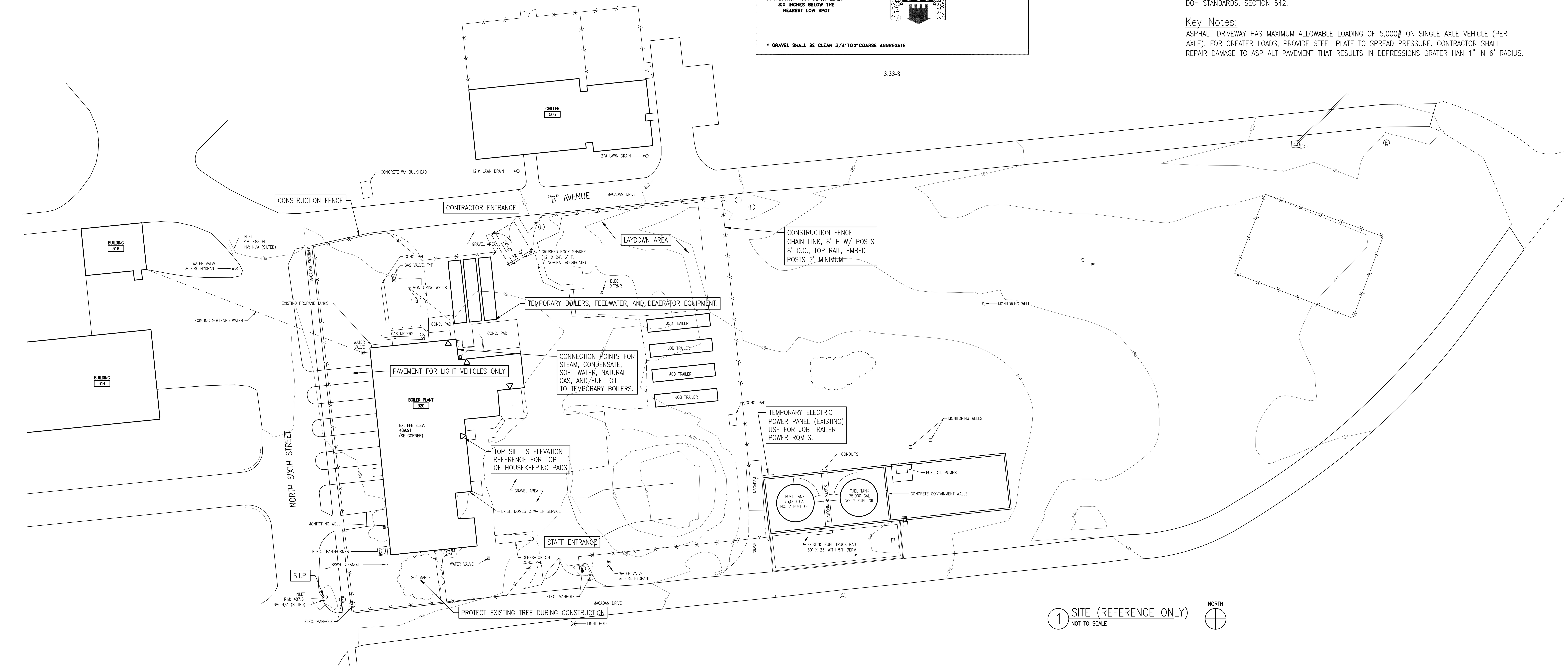
STONE INLET PROTECTION S.I.P.

Temporary Pollution Control:

THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL WATER POLLUTION. POLLUTANTS SUCH AS FUEL, LUBRICANTS, AND OTHER HARMFUL WASTE SHALL NOT BE DISCHARGED INTO OR ALONGSIDE RIVERS, STREAMS, ETC. OR INTO NATURAL OR MANMADE WASTE COURSED LEADING THERETO. WHERE EARTH IS DISTURBED, PROVIDE TEMPORARY EROSION CONTROL MEASURES THAT MAY INCLUDE: BERMS, DITCH CHECKS, CHECK DAMS, SEDIMENT STRUCTURES, FIBER MATS, SEEDING OR OTHER CONTROL DEVICES THAT COMPLY WITH WV DOH STANDARDS, SECTION 642.

Key Notes:

ASPHALT DRIVEWAY HAS MAXIMUM ALLOWABLE LOADING OF 5,000# ON SINGLE AXLE VEHICLE (PER AXLE). FOR GREATER LOADS, PROVIDE STEEL PLATE TO SPREAD PRESSURE. CONTRACTOR SHALL REPAIR DAMAGE TO ASPHALT PAVEMENT THAT RESULTS IN DEPRESSIONS GRATER HAN 1" IN 6' RADIUS.



1 SITE (REFERENCE ONLY)
NOT TO SCALE

NORTH

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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STATE OF WEST VIRGINIA MARK D SHERMEYER No. 4409 REGISTERED ARCHITECT

Drawing Title	SITE PLAN
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
Checked	
Drawn	
Project Number	613-12-501
Building Number	320
Drawing Number	AS010
Dwg.	8 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

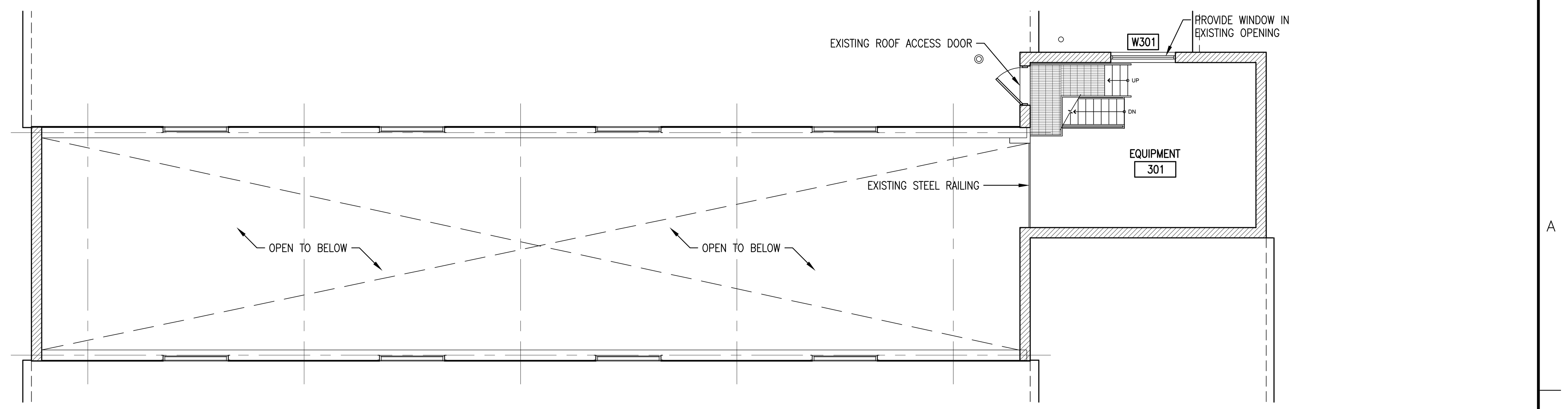
/Volumes/Groups/saa/Project Files-active/VA Martinsburg - IDIQ Boiler Plant Upgrade 12-8103 PH5/05 Drawings/AS010.dwg, Tue Oct 22 18:45:08 2013

KEY NOTES:

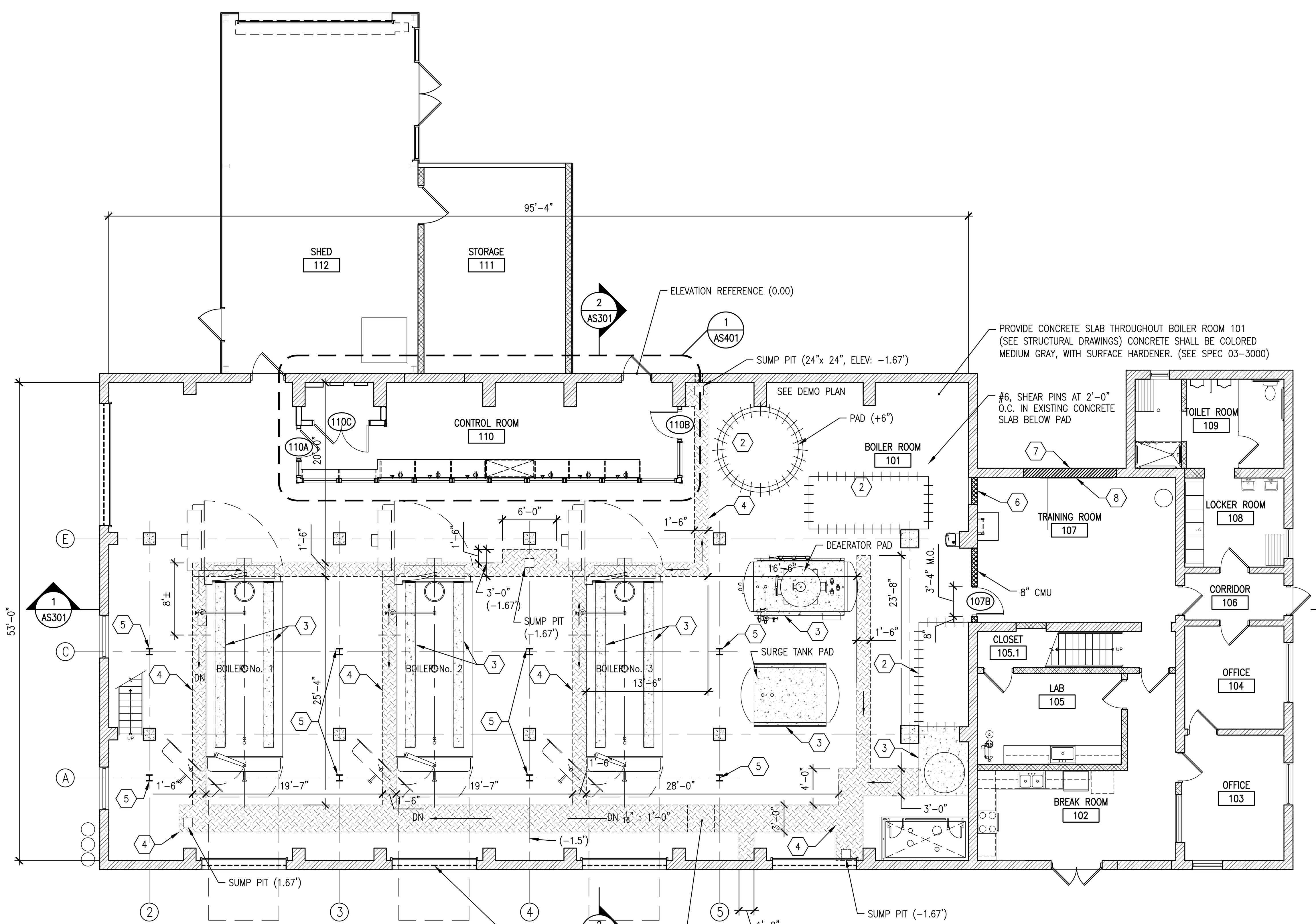
1. LOCATION, SIZE, AND CONFIGURATION OF ALL TRENCHES, EQUIPMENT SUPPORTS, AND PLATFORMS ARE PROVIDED FOR ESTIMATING AND BIDDING PURPOSES ONLY, AND APPLY ONLY TO THE BASIS-OF-DESIGN SYSTEMS AND EQUIPMENT. THE CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND CONFIGURATION OF ALL TRENCHES, EQUIPMENT SUPPORTS, AND PLATFORMS WITH THE SELECTED SYSTEMS AND EQUIPMENT.
2. EXISTING EQUIPMENT PAD TO REMAIN. PROVIDE SHEAR PINS TO NEW CONCRETE. OVER EXCAVATE 12"Dx18"W TO ENCASE INS. TURN DOWN W.W.F TO BE BLOW SHEAR PIN.
3. CONCRETE EQUIPMENT PAD, SEE STRUCTURAL DRAWINGS. COORDINATE WITH MECHANICAL DWGS, LOCATION WILL VARY.
4. PIPING TRENCH, COORDINATE WITH MECHANICAL, PLUMBING & STRUCTURAL DRAWINGS. USE S10 SEALANT IN ALL TRENCH JOINTS. MINIMUM TRENCH INVERT: -1.5 FEET
5. STEEL PLATFORM SUPPORT, SEE STRUCTURAL DRAWINGS.
6. INFILL EXISTING OPENING WITH MASONRY TO MATCH EXISTING ADJACENT CONSTRUCTION; PAINT.
7. INFILL EXISTING OPENING WITH BRICK TO MATCH EXISTING.
8. PROVIDE 4'x8' DRY ERASE BOARD W/ TACK STRIP.
9. BOILER PLATFORM AND STAIR, SEE STRUCTURAL.
10. STEEL LADDER TO GROUND FLOOR.
11. PROVIDE GUARD RAIL AT 42" ABOVE WALKING SURFACE WITH 4" TOEPLATE AND MID-RAIL, TYP.

SYMBOLS:

CMU

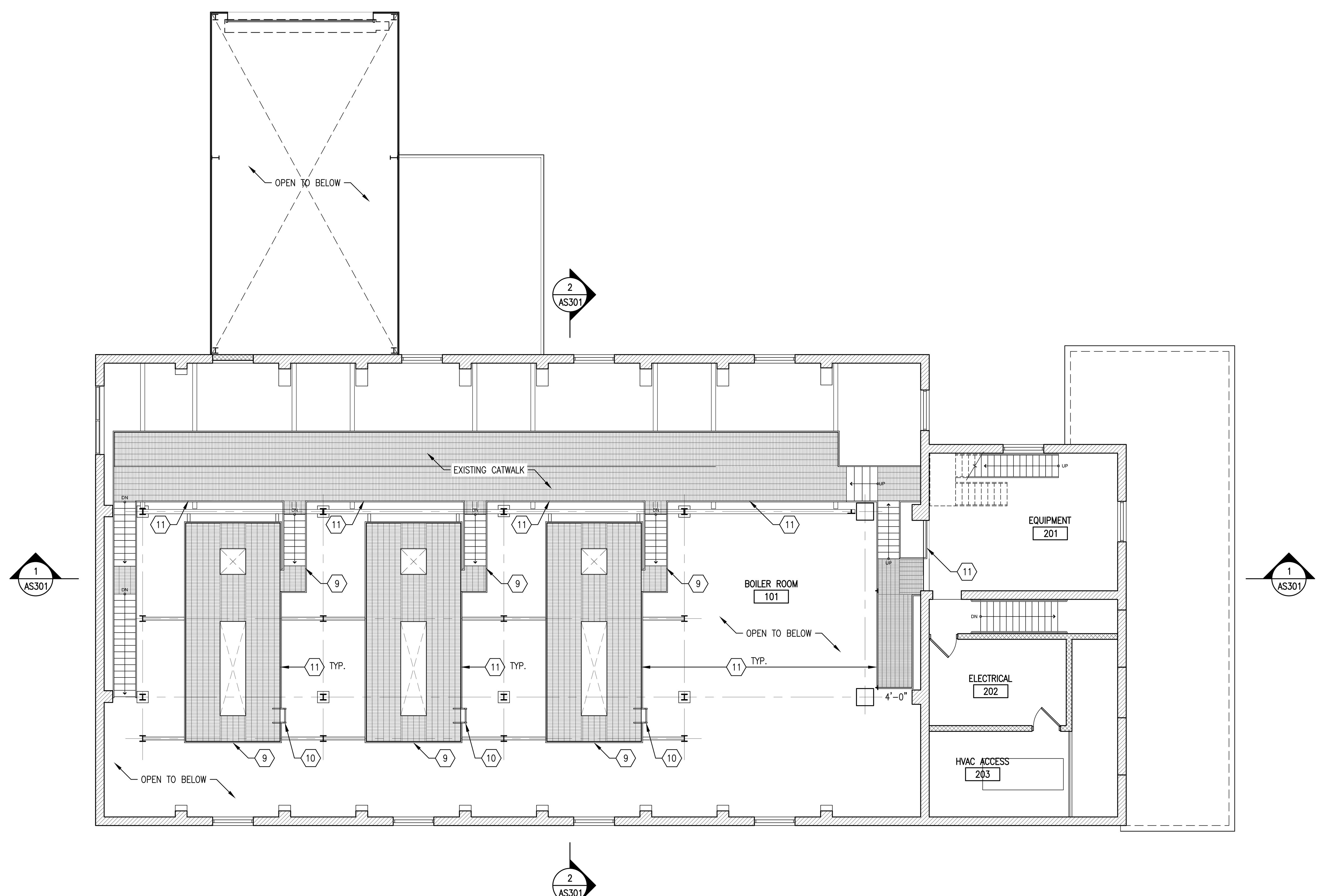


3 THIRD FLOOR AND CLERESTORY PLAN
1/8" = 1'-0"



1 GROUND FLOOR PLAN
1/8" = 1'-0"

NOTES:
1. ——► INDICATES BOTTOM OF TRENCH SLOPES TO SUMP PIT.
2. COVERS SHALL BE 3' OR LESS AND MAX 200 POUNDS WEIGHT.
3. PROVIDE SURFACE HARDENER.
4. FLATNESS COMPLIES WITH SPEC SECTION 3.13 b, 11b. COMPLIANCE AT DISCRETION OF COTR. MAY INCLUDE SLAB REMOVAL, GRINDING OR PLANING. FLATNESS AND LEVELNESS ARE CRITICAL FOR USE OF MOBILE PLATFORMS AND TO PREVENT PUDDLING.
5. PROVIDE COLORANT IN CONCRETE MIX. COR WILL APPROVE COLOR. COLOR RANGE: MEDIUM TO LIGHT GRAY.
6. COMPACT SUBGRADE AND SUB-BASE (6" AASHTO #57) TO PROVIDE MINIMUM 2500 PSF BEARING.
7. SUMP PIT SHALL E 8" BELOW TRENCH (ELEVATIONS SHOWN ARE TRENCH ELEVATIONS)



2 SECOND FLOOR PLAN
1/8" = 1'-0"

Revisions:	Date

CONSULTANTS:

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Drawing Title: FLOOR PLANS

Approved: Project Director

Project Title: BOILER PLANT UPGRADE PHASE V

Location: VAMC MARTINSBURG, WV

Date: 10.22.13 | Checked | Drawn

Project Number: 613-12-501
Building Number: 320
Drawing Number: 320-AS101
Dwg. 10 of 44

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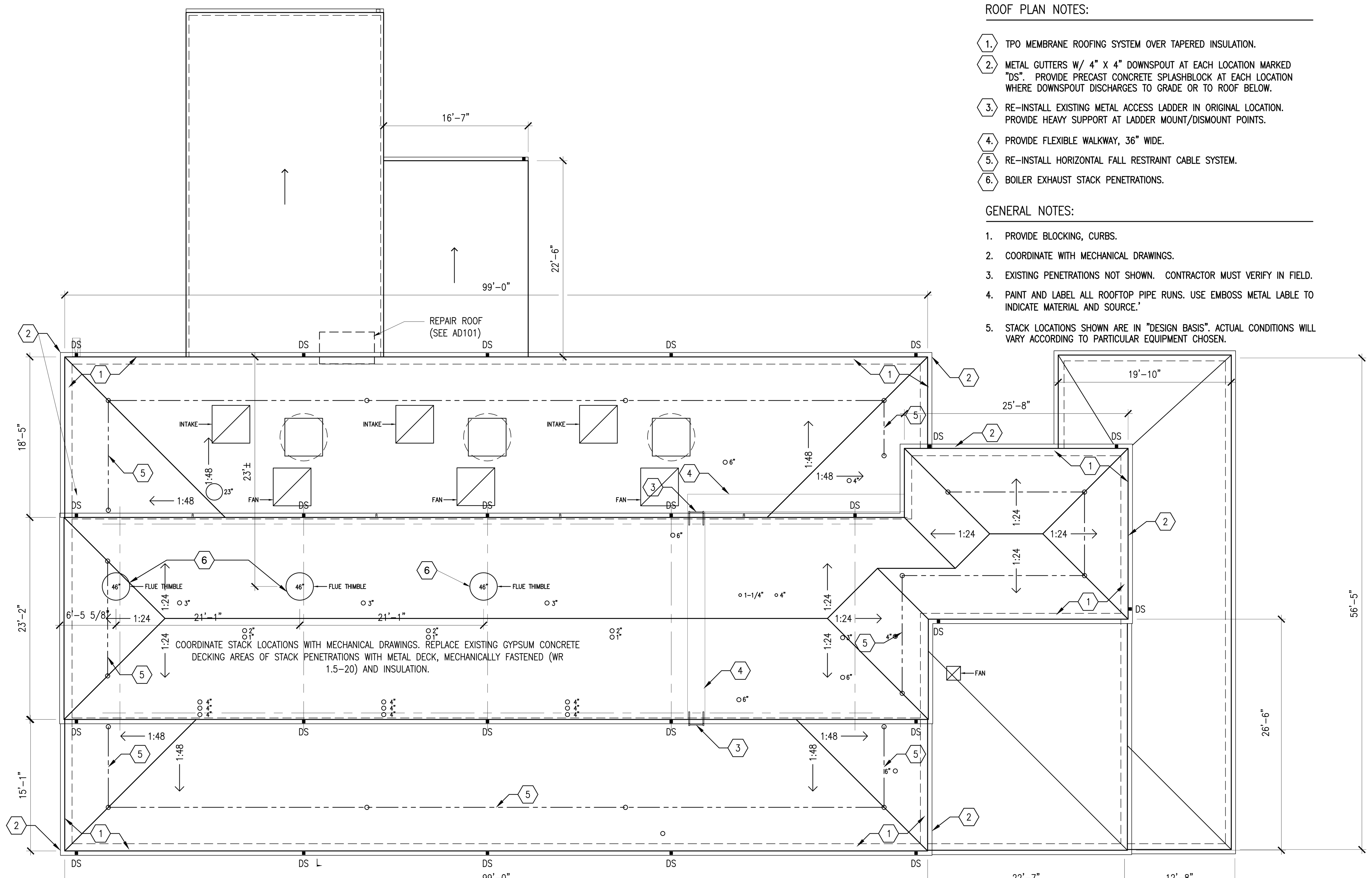
ROOF PLAN NOTES:

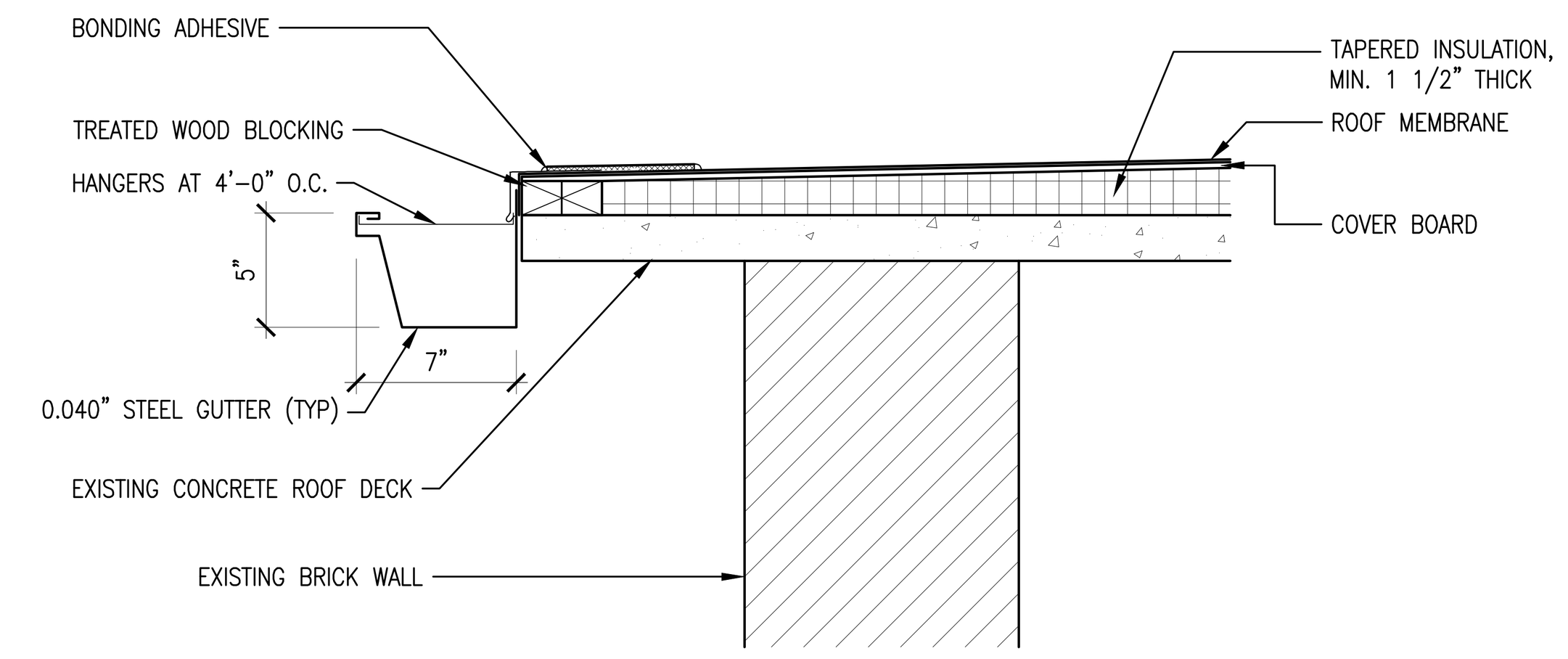
1. TPO MEMBRANE ROOFING SYSTEM OVER TAPERED INSULATION.
2. METAL GUTTERS W/ 4" X 4" DOWNSPOUT AT EACH LOCATION MARKED "DS". PROVIDE PRECAST CONCRETE SPLASHBLOCK AT EACH LOCATION WHERE DOWNSPOUT DISCHARGES TO GRADE OR TO ROOF BELOW.
3. RE-INSTALL EXISTING METAL ACCESS LADDER IN ORIGINAL LOCATION. PROVIDE HEAVY SUPPORT AT LADDER MOUNT/DISMOUNT POINTS.
4. PROVIDE FLEXIBLE WALKWAY, 36" WIDE.
5. RE-INSTALL HORIZONTAL FALL RESTRAINT CABLE SYSTEM.
6. BOILER EXHAUST STACK PENETRATIONS.

GENERAL NOTES:

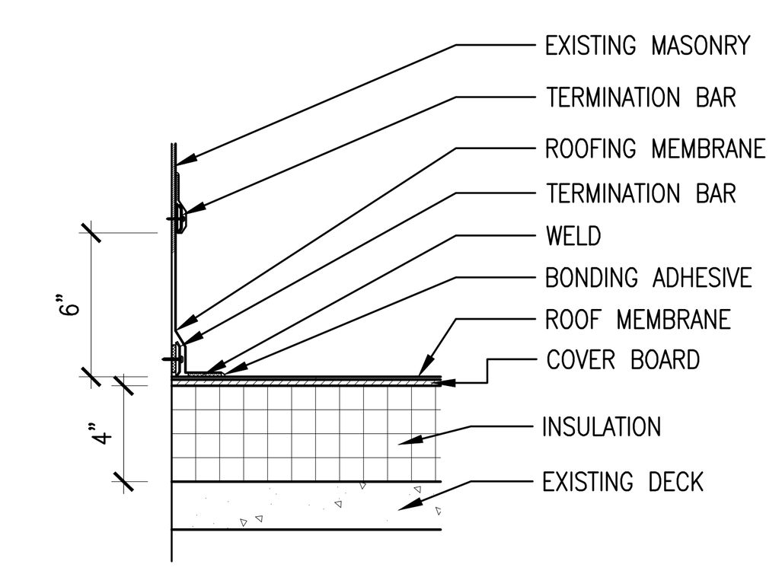
1. PROVIDE BLOCKING, CURBS.
2. COORDINATE WITH MECHANICAL DRAWINGS.
3. EXISTING PENETRATIONS NOT SHOWN. CONTRACTOR MUST VERIFY IN FIELD.
4. PAINT AND LABEL ALL ROOFTOP PIPE RUNS. USE EMBOSS METAL LABLE TO INDICATE MATERIAL AND SOURCE.'
5. STACK LOCATIONS SHOWN ARE IN "DESIGN BASIS". ACTUAL CONDITIONS WILL VARY ACCORDING TO PARTICULAR EQUIPMENT CHOSEN.



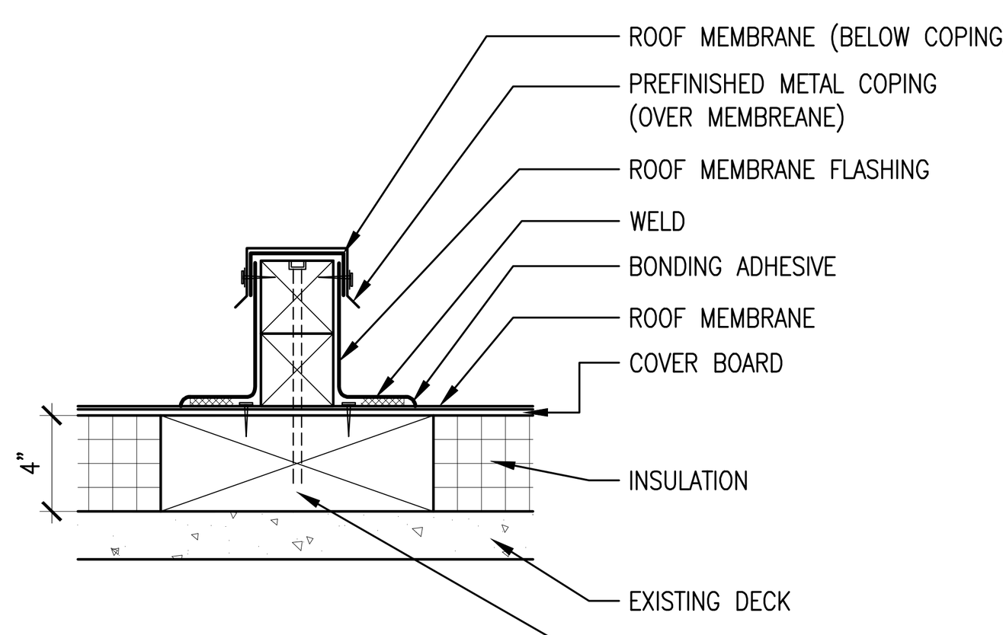
1 ROOF PLAN
1/8" = 1'-0"



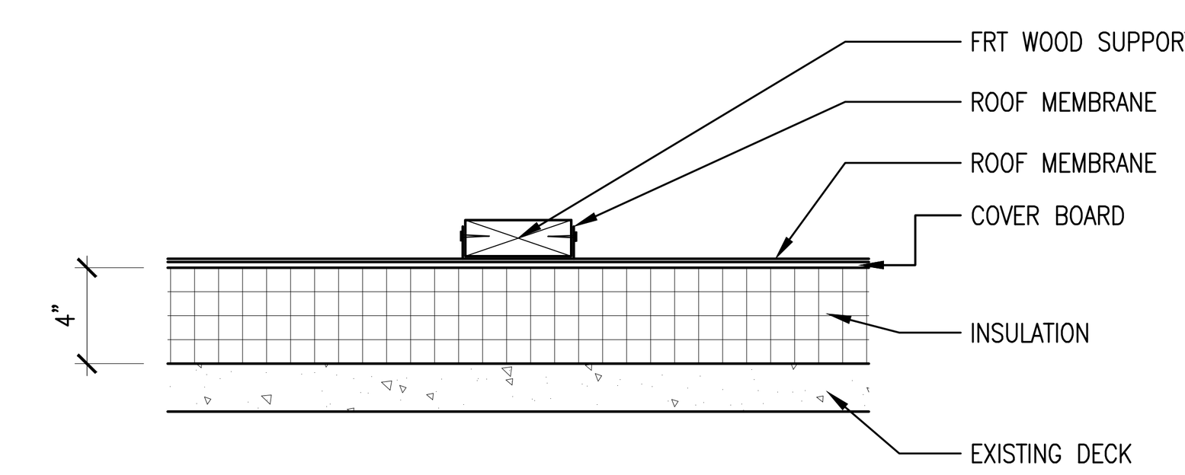
1 GUTTER DETAIL
1 1/2" = 1'-0"



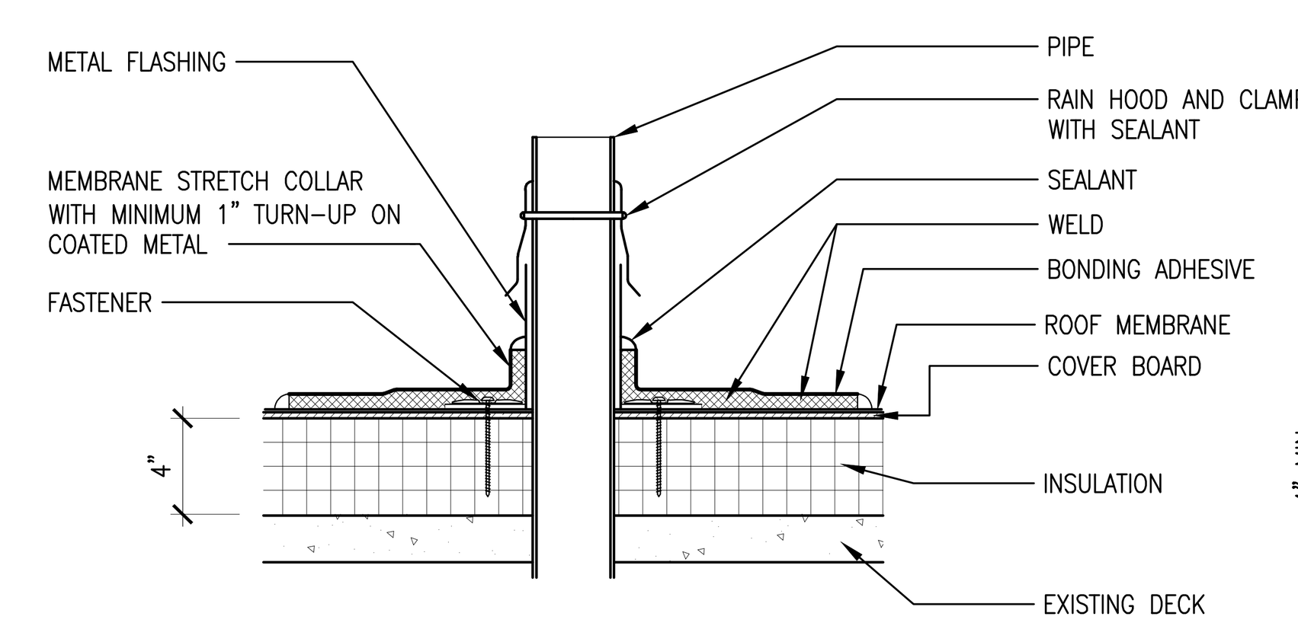
2 MEMBRANE FLASHING BASE TIE-IN
1 1/2" = 1'-0"



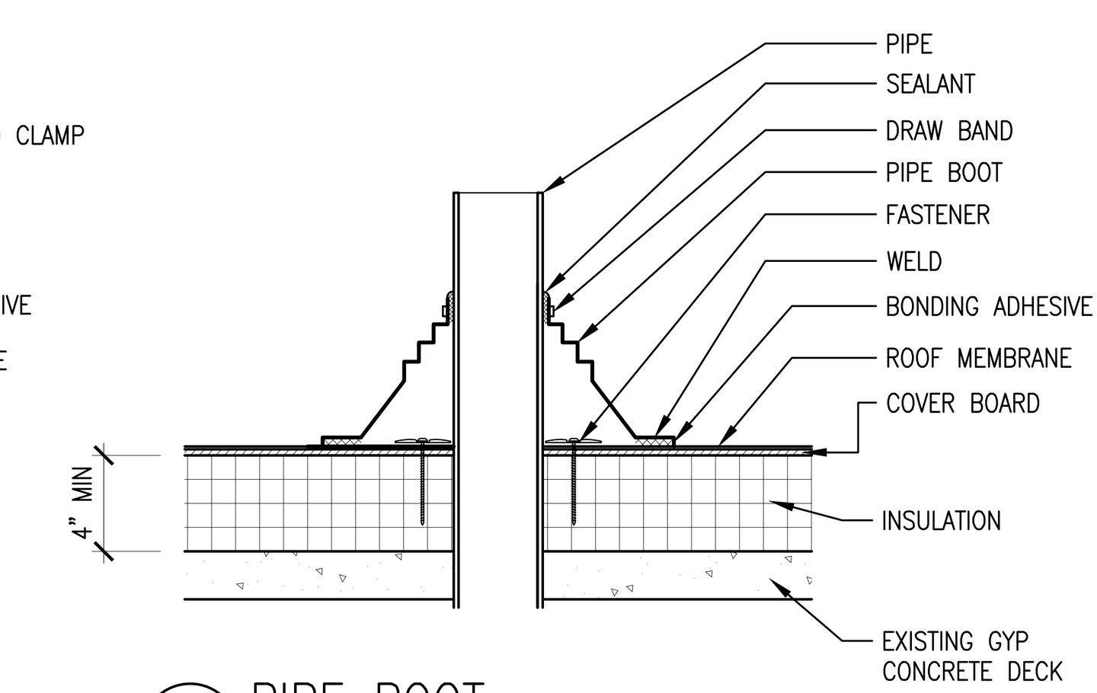
3 SUPPORT (HEAVY)
1 1/2" = 1'-0"



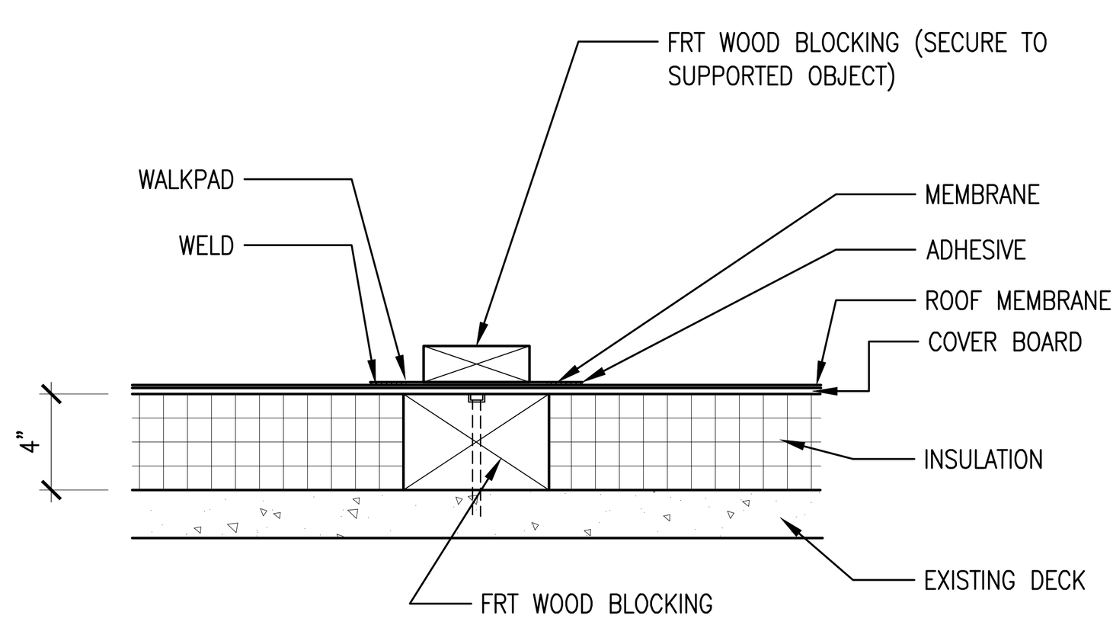
4 LIGHT SUPPORT
1 1/2" = 1'-0"



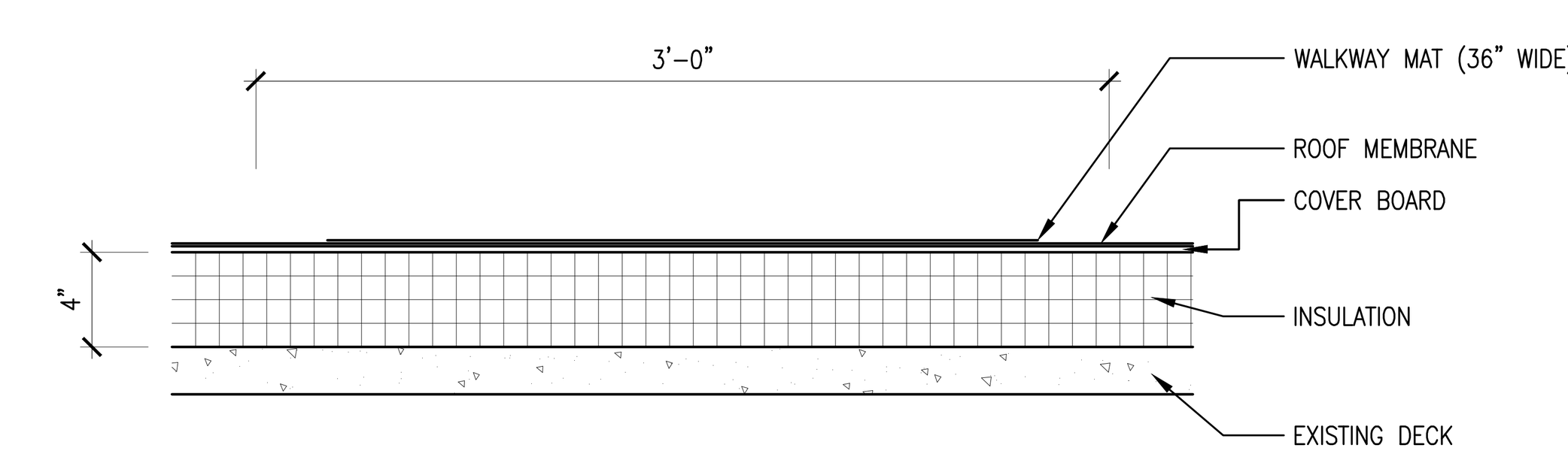
5 WARM VENT PIPE
1 1/2 = 1'-0"



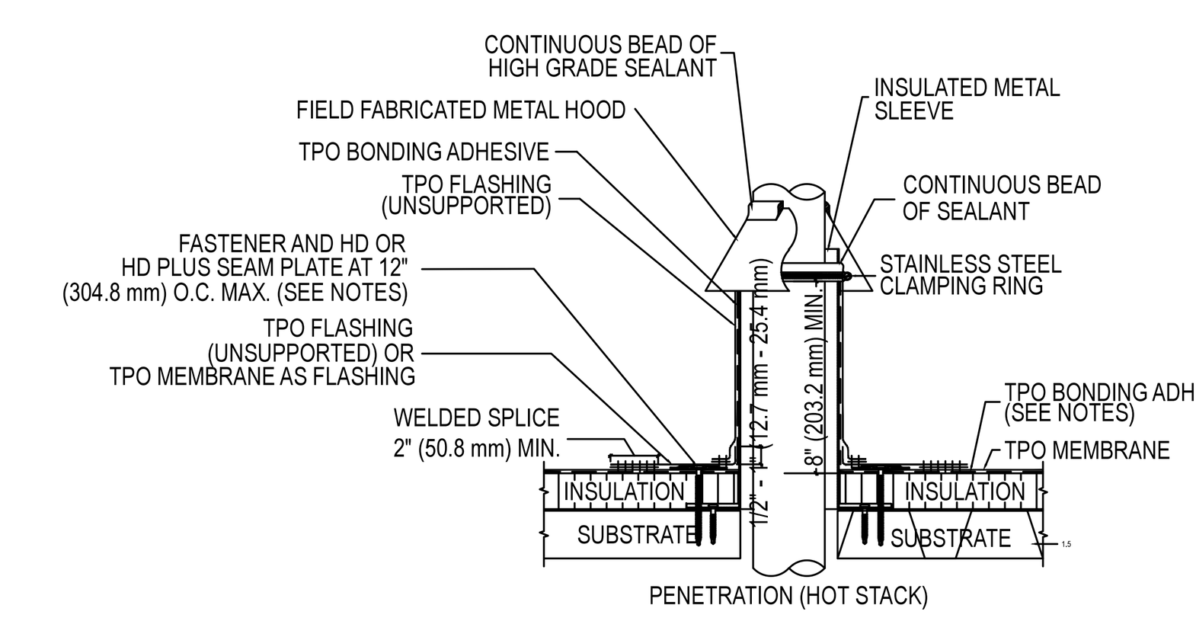
6 PIPE BOOT
1 1/2" = 1'-0"



7 (MEDIUM) SUPPORT
1 1/2" = 1'-0"



8 FLEXIBLE WALKWAY
1 1/2 = 1'-0"



9 TPO HOT STACK
1 1/2" = 1'-0"

NOTES:
1. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
2. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Revisions:	Date

CONSULTANTS:

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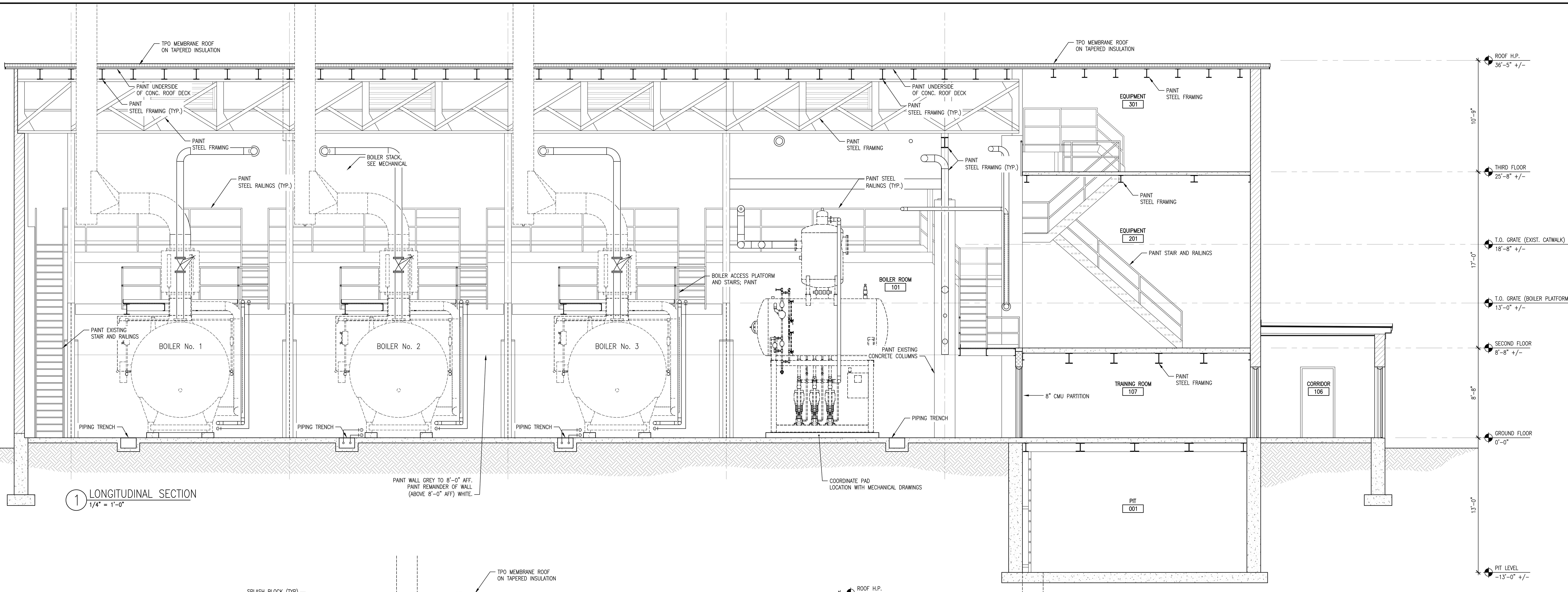
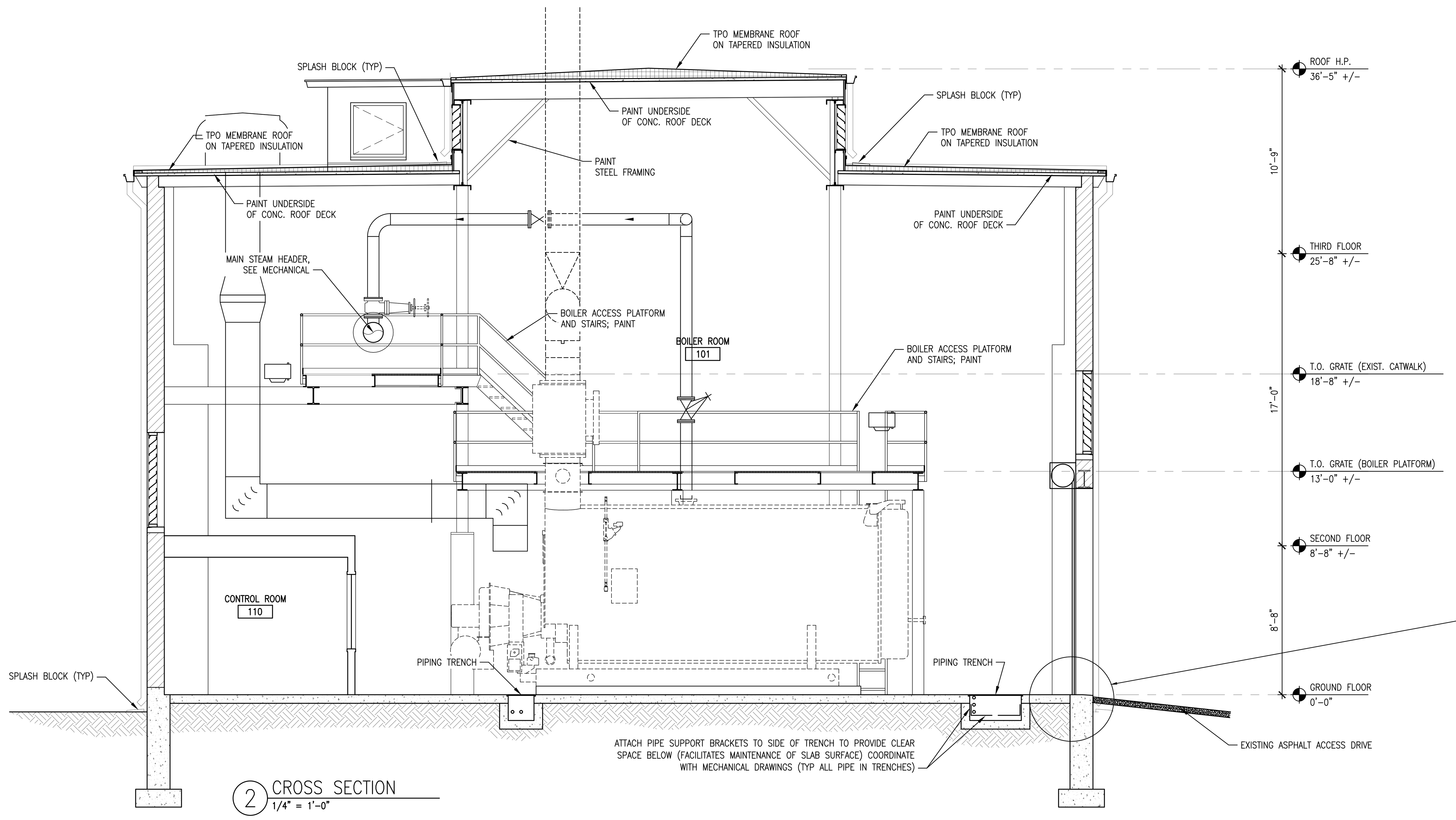
Field	Value
Drawing Title	ROOF PLAN AND DETAILS
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
Checked	JAM
Drawn	DCM
Project Number	613-12-501
Building Number	320
Drawing Number	320-AS102
Dwg.	11 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs



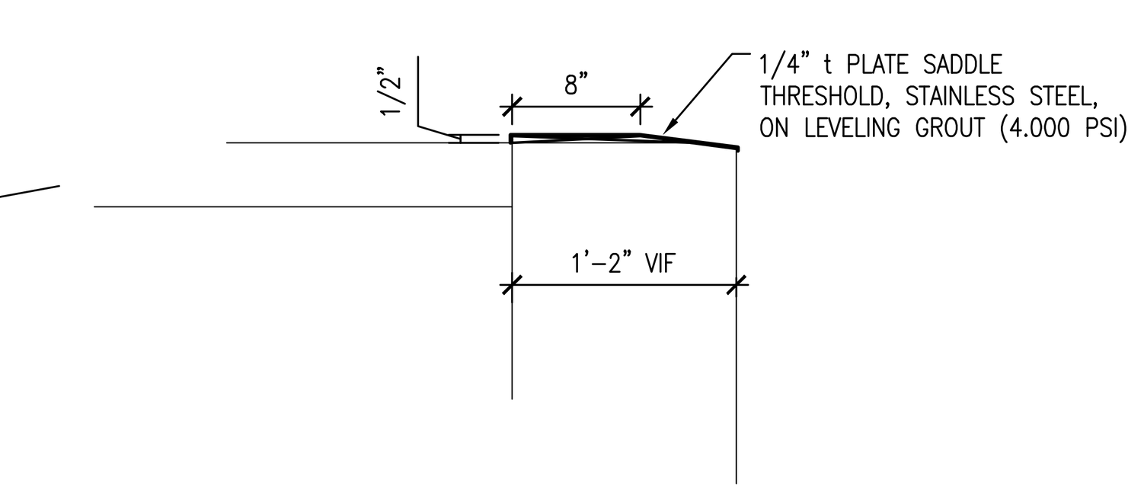
1 LONGITUDINAL SECTION
1/4" = 1'-0"



2 CROSS SECTION
1/4" = 1'-0"

GENERAL NOTES:

1. PAINTING – PREP ALL SURFACES IAW "ARCHITECTURAL PAINTING SPECIFICATIONS MANUAL" TO INCLUDE:
   a. REMOVE ALL LOOSE SCALE & RUST
   b. PRIME METALS W/ RUST OR CORROSION INHIBITIVE PRIMER
   c. REMOVE MOLD AND ALGAE BY WASHING W/ BIO-CIDAL SOAP OR CHEMICAL



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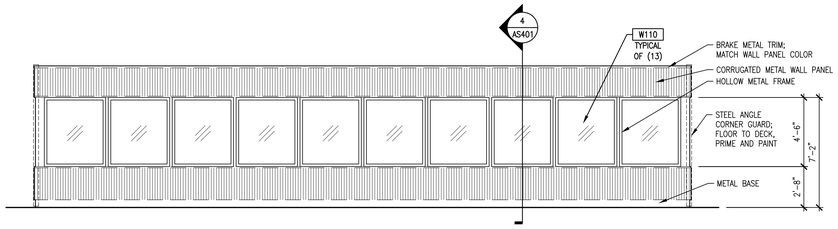
STATE OF WEST VIRGINIA MARK D SHERMEYER REGISTERED ARCHITECT

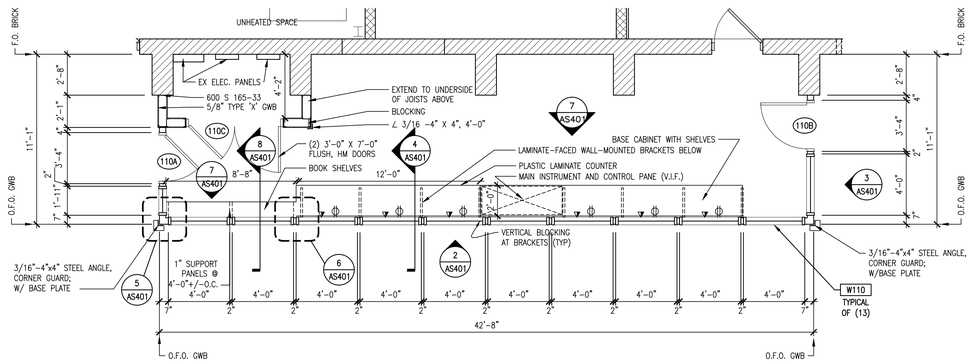
Drawing Title	Project Title	Project Number
BUILDING SECTIONS	BOILER PLANT UPGRADE PHASE V	613-12-501
		Building Number: 320
Approved: Project Director	Location: VAMC MARTINSBURG, WV	Drawing Number: 320-AS301
	Date: 10.22.13 / Checked: JAM / Drawn: DCM	Dwg. 12 of 44

Office of Construction and Facilities Management
Department of Veterans Affairs

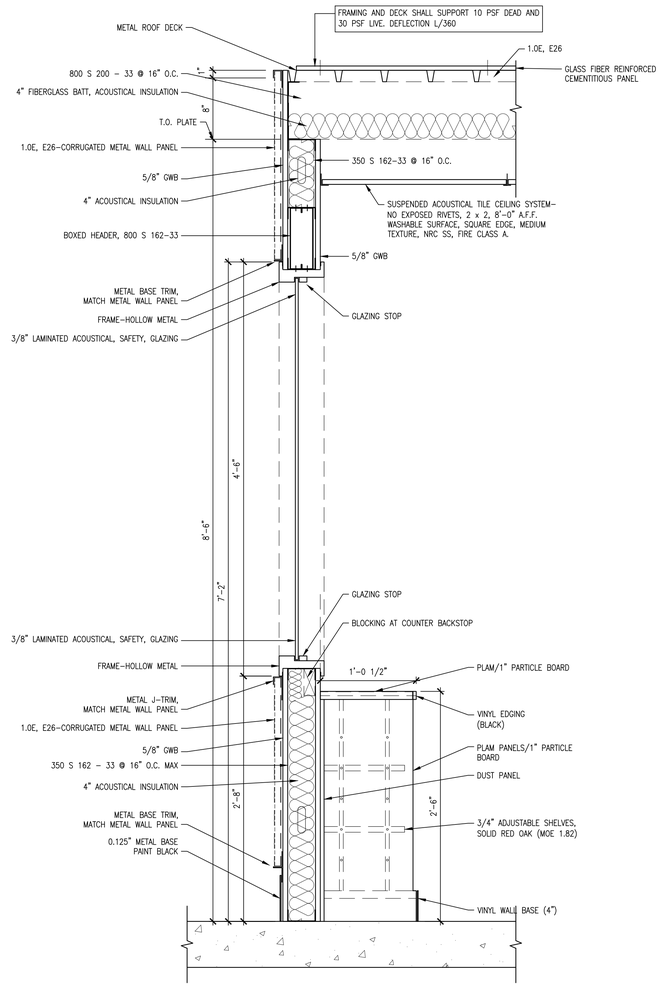
VA FORM 08-6231



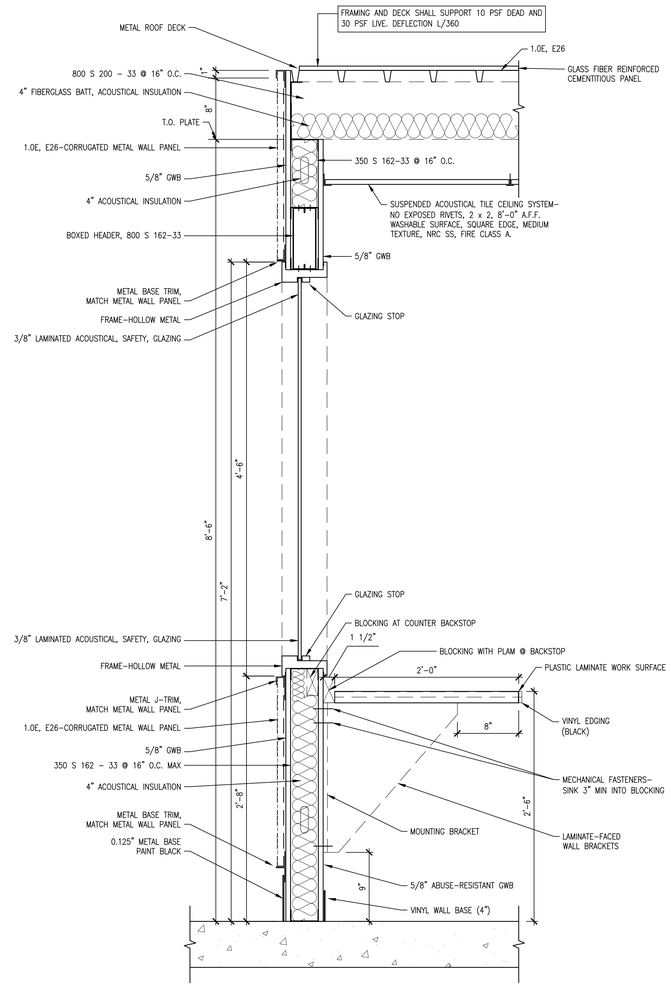
2 ELEVATION
1/4" = 1'-0"



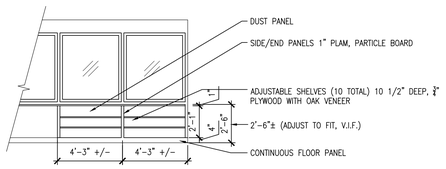
1 CONTROL ROOM PLAN
1/4" = 1'-0"



8 BOOKCASE
1 1/2" = 1'-0"



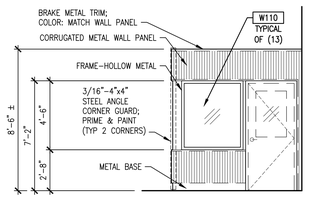
4 WALL SECTION
1 1/2" = 1'-0"



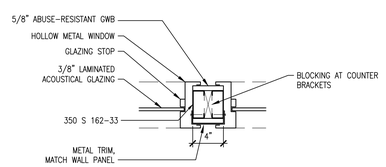
NOTES:

1. PROVIDE METAL ADJUSTABLE SHELF SUPPORTS, MORTISE INTO SIDE SUPPORT PANELS.
2. PROVIDE PLAM COUNTER TOP WITH BLACK. CONVEX VINYL EDGING.

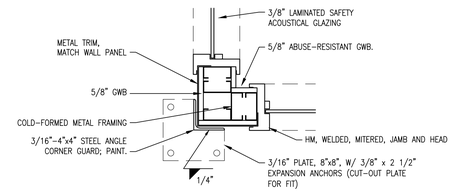
7 ELEVATION – SHELVING – COUNTERTOP CABINET
1/4" = 1'-0"



3 ELEVATION
1/4" = 1'-0"



6 DETAIL
1 1/2" = 1'-0"



5 DETAIL
1 1/2" = 1'-0"

Revisions:	Date

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Drawing Title: CONTROL ROOM

Approved: Project Director

Project Title: BOILER PLANT UPGRADE PHASE V

Location: VAMC MARTINSBURG, WV

Date: 10.22.13 | Checked: JAM | Drawn: DCM

Project Number: 613-12-501

Building Number: 320

Drawing Number: 320-AS401

Dwg. 13 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

DOOR SCHEDULE

NO.	LOCATION	SIZE WD	SIZE HT	DOOR TYPE	DOOR MATL	DOOR FIN	DOOR RATING	DOOR INSUL	DOOR GLAZ	FRAME TYPE	FRAME MATL	FRAME FIN	FRAME JAMB	FRAME HDR	HDW	NOTES
107B	TRAINING ROOM (107)	3'–0"	7'–0"	G	HM	PAINT	0	–	1/4" TEMP	2	HM	PAINT	J–1	H–1	11	–
110A	CONTROL ROOM (110)	3'–0"	7'–0"	G	HM	PAINT	0	–	1/4" TEMP	1	HM	PAINT	J–2	H–2	6	PUSH–PULL W/CLOSER & ACOUSTICAL SEALS
110B	CONTROL ROOM (110)	3'–0"	7'–0"	G	HM	PAINT	0	–	1/4" TEMP	1	HM	PAINT	J–2	H–2	6	PUSH–PULL W/CLOSER & ACOUSTICAL SEALS
110C	CONTROL ROOM (110)	(2) 3'–0"	7'–0"	F	HM	PAINT	0	–	–	3	HM	PAINT	J–2	H–2	7	PASSAGE SET, NO LOCK

WINDOW SCHEDULE

NO.	LOCATION	TYPE	R.O.* WD	R.O.* HT	WINDOW TYPE	WINDOW MATL	WINDOW FIN	WINDOW RATING	GLAZ	HDW	NOTES
W110	CONTROL ROOM 110	A	4'–0"	4'–6"	A	HM	PAINT	0	LG–1	–	TYPICAL OF (13) UNITS
W301	EQUIPMENT 301	A	4'–9"	5'–7"	A	AL	PREFIN	0	IG–2	–	FIXED

G–1		1/4" TEMPERED SAFETY GLASS
IG–1		NOT USED
IG–2		1" INSULATED, LOW–E, TEMPERED
LG–1		3/8" LAMINATED ACOUSTICAL GLAZING

* ROUGH OPENING DIMENSIONS ARE PROVIDED FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL MEASURE OPENINGS IN FIELD PRIOR TO FABRICATION.

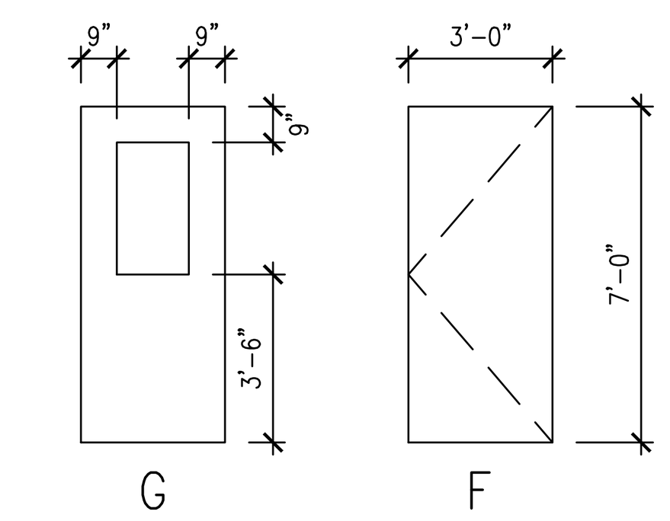
ROOM FINISH SCHEDULE

NO.	NAME	FLOOR	BASE	WALL	CEILING	NOTES
101	BOILER ROOM	CONCRETE	EFTR	PAINT*	ES, PAINT	PREP AND PAINT ALL EXPOSED STEEL
102	BREAK ROOM	–	–	–	–	EXISTING FINISHES TO REMAIN
103	OFFICE	–	–	–	–	EXISTING FINISHES TO REMAIN
104	OFFICE	–	–	–	–	EXISTING FINISHES TO REMAIN
105	LAB	–	–	–	–	EXISTING FINISHES TO REMAIN
105.1	JANITORIAL	–	–	–	–	EXISTING FINISHES TO REMAIN
Z101	STAIR	–	–	–	–	EXISTING FINISHES TO REMAIN
106	CORRIDOR	–	–	–	–	EXISTING FINISHES TO REMAIN
107	TRAINING ROOM	VCT	EFTR	PAINT	ES, PAINT	–
108	LOCKER ROOM	–	–	–	–	EXISTING FINISHES TO REMAIN
109	TOILET ROOM	–	–	–	–	EXISTING FINISHES TO REMAIN
110	CONTROL ROOM	VCT	VB/MB (OUTSIDE)	PAINT	AT	–
111	STORAGE	–	–	–	–	EXISTING FINISHES TO REMAIN
112	SHED	–	–	–	–	EXISTING FINISHES TO REMAIN
201	DEAERATOR	X CONC, PAINT	PAINT	PAINT	ES, PAINT	–
202	ELEC.	–	–	–	–	EXISTING FINISHES TO REMAIN
203	HVAC ACCESS	–	–	–	–	EXISTING FINISHES TO REMAIN
301	SURGE TANK	X CONC, PAINT	PAINT	PAINT	ES, PAINT	–

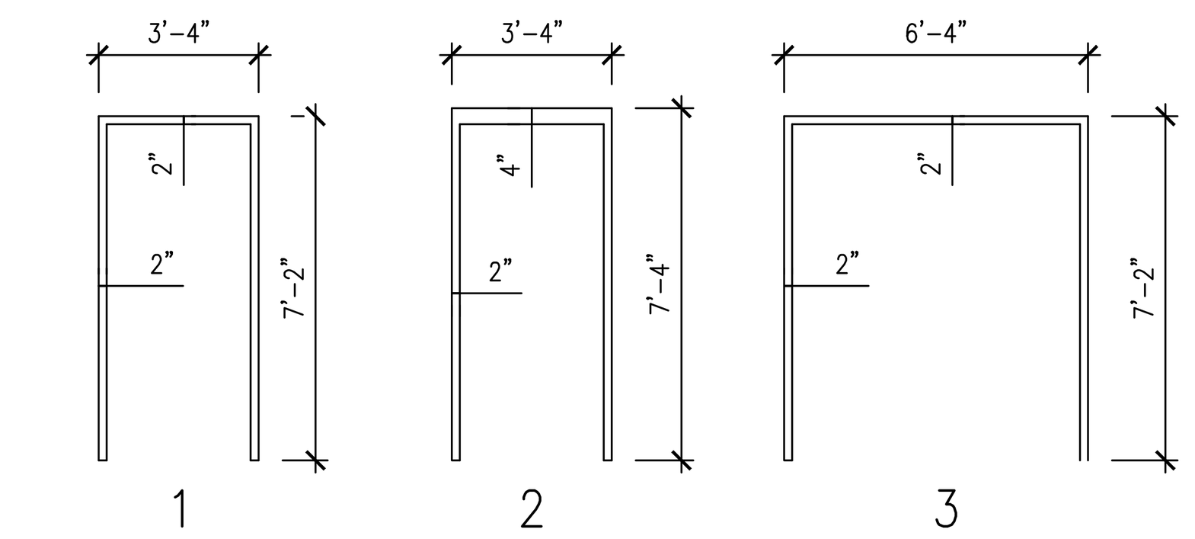
* PAINT COLOR: 2 COLORS – V.I.F.

FINISH SCHEDULE ABBREVIATIONS

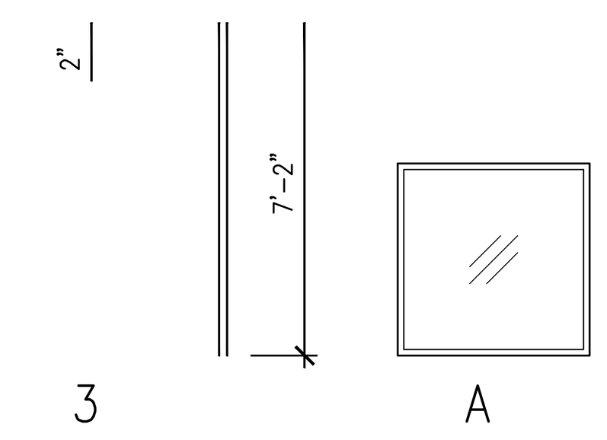
ABBREVIATION	MATL.
AT	ACOUSTICAL CEILING
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
ES	EXPOSED STRUCTURE
EFTR	EXISTING FINISHES TO REMAIN
GWB	GYPSUM WALL BOARD
MB	METAL BASE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
X	EXISTING



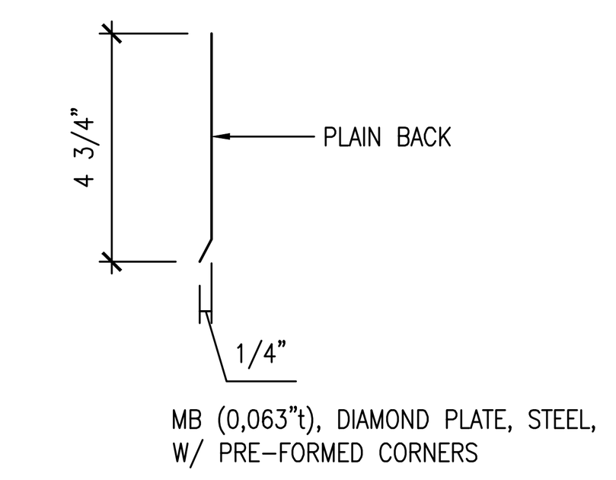
1 DOOR TYPES
1/4" = 1'–0"



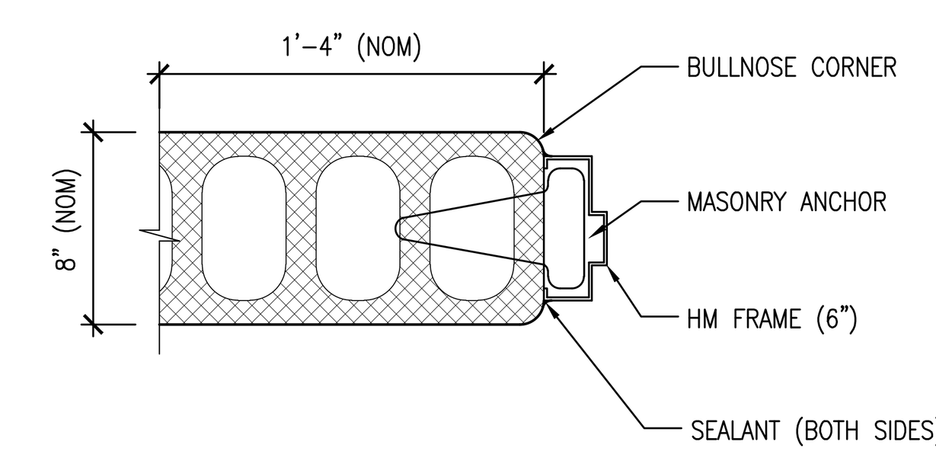
2 FRAME TYPES
1/4" = 1'–0" ALL FRAMES WELDED



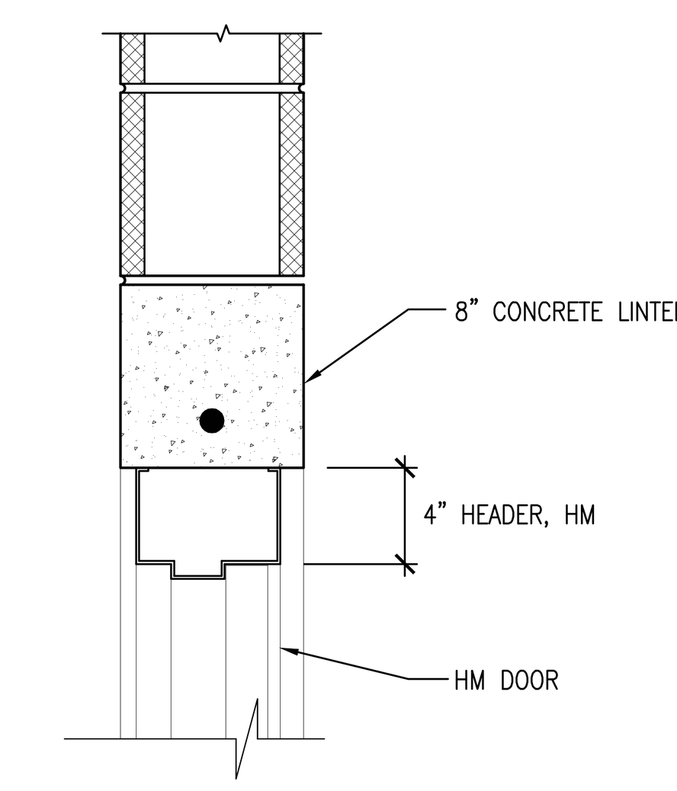
3 WINDOW TYPES
1/4" = 1'–0"



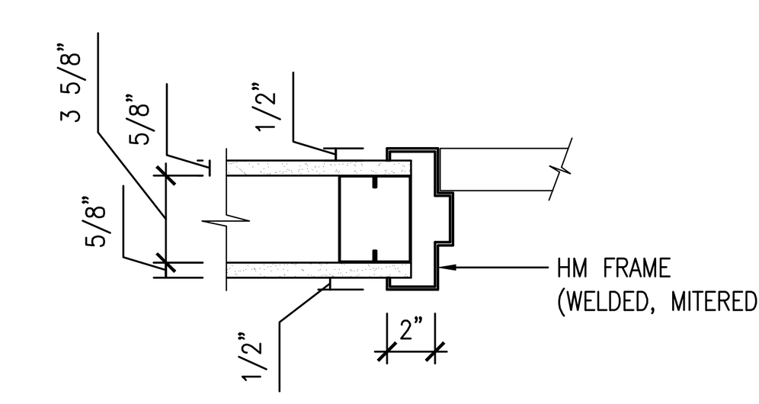
4 METAL – BASE
3" = 1'–0"



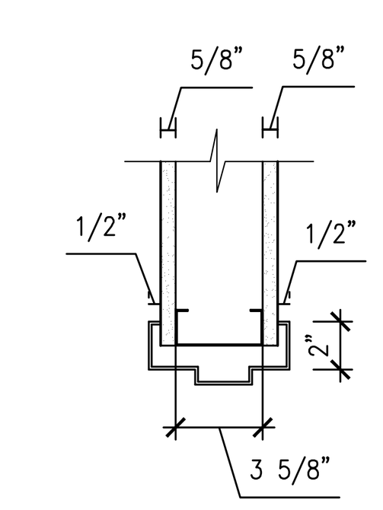
J–1
SCALE: 1 1/2"= 1'–0"



H–1
SCALE: 1 1/2"= 1'–0"



J–2
SCALE: 1 1/2"= 1'–0"



H–2
SCALE: 1 1/2"= 1'–0"

Revisions:	Date

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Drawing Title	SCHEDULES
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
Checked	JAM
Drawn	DCM
Project Number	613–12–501
Building Number	320
Drawing Number	320–AS501
Dwg.	14 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

BOILER PLANT UPGRADE

510 BUTLER AVENUE
BUILDING 320
MARTINSBURG, WV

A/E CONTRACT NUMBER: VA245-P-0622
PROJECT NUMBER: 613-12-501

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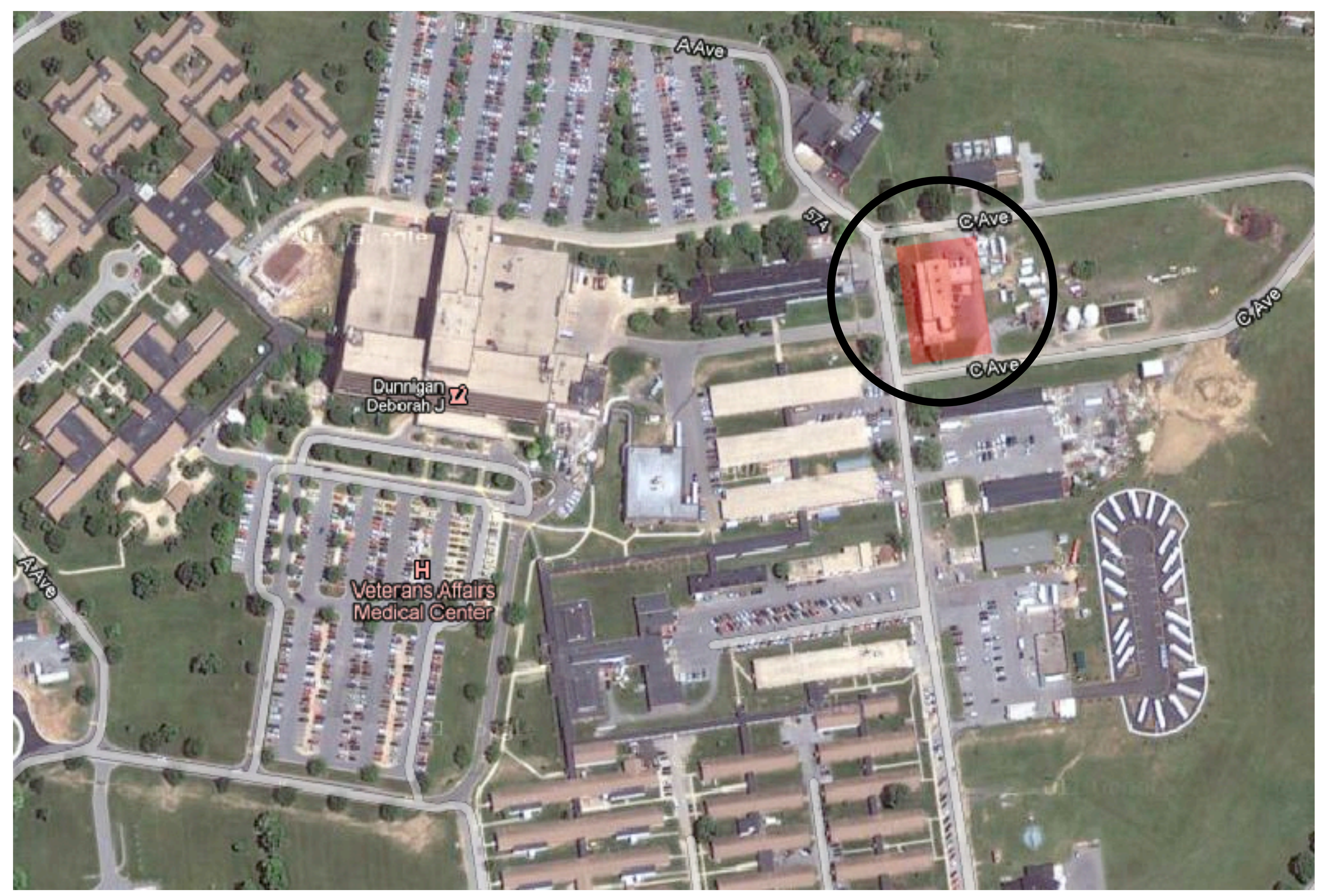
SYMBOLS:

—/\/—	BREAK LINE
0 / AS000	DETAIL INDICATOR
1"	DIMENSION LINE
000	DOOR OPENING/BORROWED LIGHT IDENTIFIER
DRAWING TITLE / SCALE	DRAWING BLOCK TITLE, TYPICAL
0 / AS000	ELEVATION INDICATOR, EXTERIOR
1, 2, 3, 4 / AS000	ELEVATION INDICATOR, INTERIOR, MULTIPLE VIEW
1 / AS000	ELEVATION INDICATOR, INTERIOR, SINGLE VIEW
1 / AS000 — 1 / AS000	BUILDING SECTION INDICATOR
W101	WINDOW/LOUVER/OPENING IDENTIFIER
ROOM NAME / 000	ROOM NAME AND NUMBER
A	COLUMN GRID
000	KEYNOTE
NORTH	NORTH ARROW

DRAWING INDEX:

GI001	COVER SHEET
GI002	ABBREVIATIONS
GI003	LIFE SAFETY DRAWING
320-HA101	FIRST FLOOR HAZARDOUS MATERIALS
320-HA102	SECOND FLOOR HAZARDOUS MATERIALS
320-HA103	THIRD FLOOR HAZARDOUS MATERIALS
320-HA104	ROOF LEVEL HAZARDOUS MATERIALS
320-AS010	SITE PLAN
320-AD101	ARCHITECTURAL DEMOLITION PLANS
320-AS101	FLOOR PLANS
320-AS102	ROOF PLAN AND DETAILS
320-AS301	BUILDING SECTIONS
320-AS401	CONTROL ROOM
320-AS501	SCHEDULES
320-SS100	FOUNDATION PLAN
320-SS101	GROUND FLOOR PLAN
320-SS102	SECOND FLOOR PLAN
320-SS103	SECTIONS AND DETAILS
320-SS104	DETAILS
320-F101	FLOOR PLANS - FIRE PROTECTION
320-PL001	DETAILS AND SCHEDULES
320-PD101	FLOOR PLANS - DEMOLITION - PLUMBING
320-PL101	LOWER FLOOR PLAN - PLUMBING
320-MD101	LOWER PIPING FLOOR PLANS - DEMOLITION
320-MD102	UPPER PIPING FLOOR PLAN - DEMOLITION
320-MD103	TRENCH PIPING PLAN & MISCELLANEOUS - DEMOLITION
320-MP001	SYMBOLS AND ABBREVIATIONS - MECHANICAL
320-MP101	LOWER PIPING FLOOR PLAN - MECHANICAL
320-MP102	UPPER PIPING FLOOR PLAN - MECHANICAL
320-MP103	TRENCH PIPING PLAN & MISCELLANEOUS - MECHANICAL
320-MP301	SECTIONS AND SITE PLAN - MECHANICAL
320-MP501	DETAILS - MECHANICAL
320-MP502	DETAILS - MECHANICAL
320-MP503	DETAILS - MECHANICAL
320-MP504	DETAILS - MECHANICAL
320-MP505	DETAILS - MECHANICAL
320-MP506	CONTROL POINTS LISTS - MECHANICAL
320-MP507	CONTROL POINTS LISTS - MECHANICAL
320-MP508	CONTROL POINTS LISTS - MECHANICAL
320-MP601	SCHEDULES - MECHANICAL
320-MP602	SCHEDULES - MECHANICAL
320-ED101	FLOOR PLANS - DEMOLITION - ELECTRICAL
320-E101	FLOOR PLANS - ELECTRICAL
320-E501	DETAILS AND SCHEDULES



1 LOCATION PLAN
NOT TO SCALE

Revisions: | Date

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Drawing Title	COVER SHEET
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
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Drawn	
Project Number	613-12-501
Building Number	320
Drawing Number	GI001
Dwg.	1 of 44

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

ARCHITECTURAL ABBREVIATIONS

A LABEL	CLASS A DOOR
A/C	AIR CONDITION
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAMA	AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION
AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT OR ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, OR ADJUSTABLE
ADMIN	ADMINISTRATION
ADB	AUTOMATIC DOOR BOTTOM
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGA	AMERICAN GAS ASSOCIATION
AGC	ASSOCIATED GENERAL CONTRACTORS
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALT NO	ALTERNATE NUMBER
ALUM	ALUMINUM
AMP	AMPERE
AMT	AMOUNT
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
APA	AMERICAN PLYWOOD ASSOCIATION
APPD	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
AR	AS REQUIRED
ARCH	ARCHITECT
ASB	ASBESTOS
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION
ASKLR	AUTOMATIC SPRINKLER
ASPH	ASPHALT
ASSN	ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATCH	ATTACHMENT
ATM	AUTOMATIC TELLER MACHINE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVE	AVENUE
AVG	AVERAGE
AW	ACID WASTE
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
AWPA	AMERICAN WOOD PRESERVERS' ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AWT	ACOUSTICAL WALL TREATMENT
B LABEL	CLASS B DOOR
B PL	BASE PLATE
BALC	BALCONY
BAT	BATTEN
BB	BULLETIN BOARD
BD	BOARD
BD FT	BOARD FEET (FOOT)
BEV	BEVEL
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION
BI FLD DR	BIFOLDING DOORS
BITUM	BITUMINOUS
BKG	BACKING
BLD	BUILD
BLDG	BUILDING
BLKT	BLANKET
BLVD	BOULEVARD
BM	BEAM OR BENCHMARK
BOT	BOTTOM
BR	BEDROOM
BRCG	BRACING
BRDG	BRIDGING
BRDG JST	BRIDGING JOIST
BRG	BEARING
BRG PL	BEARING PLATE
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN	BETWEEN
BU	BUSHEL
BUR	BUILT-UP ROOFING
C	CELSIUS CHANNEL
C	CHANNEL CELSIUS
C CONC	CAST CONCRETE
C LABEL	CLASS C DOOR
C TO C	CENTER TO CENTER
CAB	CABINET
CAC	CEILING ATTENUATION CLASS
CB	CATCH BASIN OR CORNER BEAD
CBB	CEMENTITIOUS (BACKER) BOARD
CC	CUBIC CENTIMETER
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTERCLOCKWISE
CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CG	CENTER OF GRAVITY OR CORNER GUARD
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS
CH BD	CHALKBOARD
CHEM	CHEMICAL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CIRC	CIRCULAR
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLDG	CLADDING
CLG	CEILING
CLG HT	CEILING HEIGHT
CLR	CLEAR
cm^2	SQUARE CENTIMETER
cm^3	CUBIC CENTIMETER
CM	CONSTRUCTION MANAGEMENT
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CARBON MONOXIDE, CERTIFICATE OF OCCUPANCY, CLEANOUT, OR COMPANY
CO_2	CARBON DIOXIDE
COL	COLUMN
COM	COMMON
COMB	COMBINATION, COMBINED
COMM	COMMUNICATION
COMP	COMPONENT
CONC	CONCRETE
CONC FLR	CONCRETE FLOOR
COND	CONDENSER OR CONDITION
CONF	CONFERENCE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPM	CRITICAL PATH METHOD
CPRS	COMPRESSIBLE
CPT	CARPET
CRS	COLD ROLLED STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSB	CONCRETE SPLASH BLOCK
CSG	CASING
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CSK	COUNTER SUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER CONTOUR
CTRL	CONTROL
CTV	CABLE TELEVISION
CU	COPPER C
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CURT	CURTAIN
CYL	CYLINDER
CYL L	CYLINDER LOCK
D	DEPTH OR PENNY (NAIL)
D LABEL	CLASS D DOOR
DAT	DATUM
DB	DECIBEL
DBL	DOUBLE
DBL GLZ	DOUBLE GLAZE
DC	DIRECT CURRENT
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL DIAGRAM
DIAG	DIAGRAM DIAGONAL
DIFF	DIFFERENCE OR DIFFUSER
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVIDE OR DIVISION
DL	DEAD LOAD
DOC	DOCUMENT
DOUG FIR	DOUGLAS FIR
DOZ	DOZEN
DR	DOOR, DRAIN, DRESSING ROOM, OR DRIVE
DR CL	DOOR CLOSER
DR FR	DOOR FRAME
DR OPNG	DOOR OPENING
DS	DOWNSPOUT
DSGN	DESIGN
DW	DISHWASHER
DWG	DRAWING
DWTR	DUMBWAITER
E	EAST
E LABEL	CLASS E DOOR
EA	EACH
EFF	EFFICIENCY
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC
ELEC DR OP	ELECTRIC DOOR OPENER
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENCL	ENCLOSURE
ENGR	ENGINEER
ENVIR	ENVIRONMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPO	EMERGENCY POWER OFF
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERD	EXISTING ROOF DRAIN
ESC	ESCAPE OR ESCUTCHEON
ESCAL	ESCALATOR
ESMT	EASEMENT
ESP	ESPECIALLY
EST	ESTIMATE
ETC	AND SO FORTH OR ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXP BT	EXPANSION BOLT
EXST GR	EXISTING GRADE
EXT	EXTERIOR, EXTERNAL, OR EXTINGUISHER
EXT GR	EXTERIOR GRADE
F	FAHRENHEIT OR FEMALE
FA	FIRE ALARM
FAB	FABRIC
FAC	FACTOR
FACIL	FACILITY
FAS	FASCIA
FAS BD	FASCIA BOARD
FCO	FLOOR CLEANOUT
FCTY	FACTORY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FH	FLAT HEAD OR FLAT HEAD SCREWS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHP	FULL HEIGHT PARTITION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIL	FILLET
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FIN WD	FINISH WOOD
FIXT	FIXTURE
FL	FLOORLINE
FLASH	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FLOOR
FLR FIN	FLOOR FINISH
FLR SK	FLOOR SINK
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FM	FACTORY MUTUAL
FM-G	FACTORY MUTUAL GLOBAL
FO	FINISHED OPENING
FOC	FACE OF CONCRETE OR FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SLAB OR FACE OF STUD
FOUNT	FOUNTAIN
FOW	FACE OF WALL
FP	FIRE PROTECTION OR FIREPROOF
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FIRE RATING, FIRE RESISTANT, OR FRAME
FR SNK	FLUSHING RIM SINK
FREQ	FREQUENCY
FRMG	FRAMING
FRP	FIBER REINFORCED POLYESTER OR FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RESISTANT TREATED
FRZ	FREEZER
FS	FEDERAL SPECIFICATION
FSTNR	FASTENER
FT	FEET OR FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNISH OR FURNITURE
FUT	FUTURE
FWC	FABRIC WALLCOVERING
GA	GAGE OR GYPSUM ASSOCIATION
GAL	GALLON
GALV	GALVANIC OR GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUARD
GDR	GUARD RAIL
GEN	GENERAL OR GENERATOR
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GFRP	GLASS-FIBER-REINFORCED PLASTIC
GI	GALVANIZED IRON
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUED LAMINATED WOOD
GR FL	GROUND FLOOR
GRAN	GRANITE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GSM	GALVANIZED SHEET METAL
GSU	GLAZED STRUCTURAL UNIT
GT	GROUT
GUAR	GUARANTEE
GUT	GUTTER
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
H PLAM	HIGH PRESSURE PLASTIC LAMINATE
HAZ MAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD DOOR
HDBD	HARDBOARD
HDNR	HARDENER
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
HEX	HEXAGON
HF	HIGH FREQUENCY
HGR	HANGER
HM	HECTOMETER
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HP	HIGH PRESSURE OR HORSEPOWER
HQ	HEADQUARTERS
HS	HEAT-STRENGTHENED (GLASS) OR HIGH STRENGTH
HSE	HOUSE
HSKPG	HOUSEKEEPING
HST	HOIST
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HVY	HEAVY
HW	HOT WATER
HYD	HYDRANT
HYDR	HYDRAULIC
I	INTERSTATE (HIGHWAY) OR MOMENT OF INERTIA
IAQ	INDOOR AIR QUALITY
IAW	IN ACCORDANCE WITH
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION, INSIDE DIAMETER, OR INTERIOR DESIGN
ID NO	IDENTIFICATION NUMBER
ILLUM	ILLUMINATION
INCL	INCLUDED
IND	INDEPENDENT OR INDUSTRIAL
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERCOM	INTERCOMMUNICATION
INTL	INTERNATIONAL
IRMA	INVERTED ROOF MEMBRANE ASSEMBLY
IWH	INSTANTANEOUS WATER HEATER
JAN	JANITOR
J-BOX	JUNCTION BOX
KD	KILN DRIED OR KNOCKED DOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
L	ANGLE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAM GL	LAMINATED GLASS
LAU	LAUNDRY
LAV	LAVATORY
LBR	LUMBER
LBS	POUND
LD BRG	LOAD-BEARING
LDR	LEADER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHR	LEFT HAND REVERSE LATENT HEAT RATIO
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LKWASH	LOCKWASHER
LL	LEAD LINED
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LNDSCP	LANDSCAPE
LR	LIVING ROOM
LRG	LARGE
LRV	LOUVERED ROOF VENT
LS	LUMP SUM
LT	LIGHT
LT GA	LIGHT GAGE
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LVD	LOUVERED
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
LYR	LAYER
MACH	MACHINE
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MCB	METAL CORNER BEAD
MD	DECK
ME	MECHANICAL ENGINEER
MEAS	MEASURE
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDICAL MEDIUM
MED	MEDIUM MEDICAL
MEK	METHYL ETHYL KETONE
MEL	MELAMINE
MEMB	MEMBRANE
MEMO	MEMORANDUM
MEZZ	MEZZANINE
MF	MILL FINISH
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MGT	MANAGEMENT
MH	MANHOLE
MIC	MICROPHONE
MID	MIDDLE
MIL STD	MILITARY STANDARD
MIN	MINIMUM MINUTE
MIN	MINUTE MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MIT	MITER
MKR	MARKER
ML	METAL LATH
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
mm	MILLIMETER
MO	MASONRY OPENING OR MOTOR OPERATED
MOD	MODEL, MODIFY OR MODULE
MOD BIT	MODIFIED BITUMEN
MON	MONITOR
MOPR	MOP RACK
MR	MOISTURE RESISTANT
MS	MACHINE SCREW OR MOP SINK
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MW	MICROWAVE
MWP	MEMBRANE WATERPROOFING
N	NORTH
NA	NOT APPLICABLE
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NAT	NATURAL
NATL	NATIONAL
NC	NOISE CRITERIA
NCOMBL	NONCOMBUSTIBLE
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
NRP	NONREMOVABLE
NS	NARROW STILE
NUM	NUMERAL
O/O	OUT TO OUT
O	OXYGEN
OA	OUTSIDE AIR OR OVERALL
OC	ON CENTER
OCC	OCCUPY/OCCUPANT(S)
OCT	OCTAGON
OD	OUTSIDE DIAMETER OUTSIDE DIMENSION
OD	OUTSIDE DIMENSION OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHANG
OH DR	OVERHEAD (COILING) DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OPT	OPTIONAL
OR	OPERATING ROOM OR OUTSIDE RADIUS
ORD	ORDNANCE OR OVERFLOW ROOF DRAIN
ORG	ORGANIC
ORIG	ORIGINAL
ORN	ORNAMENTAL
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINSTRATION
OUT	OUTLET
OZ	OUNCE
PAR	PARALLEL OR PARAPET
PARA	PARAGRAPH
PART	PARTIAL
PAT	PATTERN
PB	PUSHBUTTON
PBD	PARTICLEBOARD
PC	PIECE, POLYCARBONATE OR PORTLAND CEMENT
PCA	PORTLAND CEMENT ASSOCIATION
PCC	PRECAST CONCRETE
PCCP	CONCRETE PAVEMENT
PCD	PAPER CUP DISPENSER
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PEN	PENETRATE
PEND	PENDANT
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PGBD	PEGBOARD
PHAR	PHARMACY
PHOTO	PHOTOGRAPH
PHS	PHILLIPS HEAD SCREW
PKG	PACKAGE
PL	PROPERTY LINE
PL GL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER OR PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PMTL	PAINTED METAL
PNEU	PNEUMATIC
PNL	PANEL
PO	POST OFFICE PURCHASE ORDER
PO	PURCHASE ORDER POST OFFICE
POLY	POLYETHYLENE (PLASTIC)
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PRELIM	PRELIMINARY
PREP	PREPARATION
PRESS	PRESSURE
PREV	PREVIOUS
PRKG	PARKING
PRMLD	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PNEUMATIC TUBE, OR PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PVG	PAVING
PWR	POWER
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QRY	QUARRY
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
QUAD	QUADRANT
QUAL	QUALITY
R	RADIUS OR RISER
RA	RETURN AIR
RAD	RADIATOR
RB	RESILIENT BASE OR RUBBER BASE
RB HK	ROBE HOOK
RBM	REINFORCED BRICK MASONRY
RBR	RUBBER
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RCVR	RECEIVER
RD	ROAD OR ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGLE
REF	REFERENCE OR REFRIGERATOR
REFR	REFRACTORY REFRIGERATION
REFR	REFRIGERATION REFRACTORY
REG	REGISTER
REINF	REINFORCE
REP	REPAIR
REPL	REPLACE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RADIO FREQUENCY
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RS	ROUGH SAWN
RT	RIGHT
RV	ROOF VENT
RVS	REVERSE
RWD	REDWOOD
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SALV	SALVAGE
SAMP	SAMPLE
SAN	SANITARY
SAT	SUSPENDED ACOUSTICAL TILE
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SBS	STYRENE BUTADIEN STYRENE
SBSTR	SUBSTRATE
SC	SHADING COEFFICIENT OR SOLID CORE
SCH	SCHOOL
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SCP	SCUPPER
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SCWD	SOLID CORE WOOD DOOR
SD	SHOP DRAWINGS, SMOKE DETECTOR, OR SOAP DISPENSER;
SDG	SIDING
SECT	SECTION
SEG	SEGMENT
SEL	SELECT
SEP	SEPARATE
SF	SQUARE FOOT (FEET)
SFTWD	SOFTWOOD
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SHR	SHOWER
SHR HD	SHOWER HEAD
SHRD	SHOWER DRAIN
SHT	SHEET
SHT MTL FLASH	SHEET METAL (FLASHING)
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SJ	SCORED JOINT
SJI	STEEL JOIST INSTITUTE
SK	SKETCH
SKLT	SKYLIGHT
SLD WDW	HORIZONTAL SLIDING WINDOW
SLDG	SLIDING
SLNT	SEALANT
SM	SHEET METAL
SMK	SMOKE
SND	SANITARY NAPKIN DISPENSER
SND INS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SQ	SQUARE
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER OR SERVICE SINK
SST	STAINLESS STEEL
ST	STAIRS OR STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STL RF DK	STEEL ROOF DECK
STL TB	STEEL TUBE
STL TR	STEEL TRUSS
STNLS	STAINLESS
STOR	STORAGE
STR	STRINGERS
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUB	SUBSTITUTE
SURF	SURFACE
SUSP	SUSPEND
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SW	SWITCH
SWDR	SWING DOOR
SYM	SYMBOL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
T&M	TIME AND MATERIALS
TB	THROUGH BOLT OR TOWEL BAR
TCA	TILE COUNCIL OF AMERICA
TCP	TELEPHONE CONTROL PANEL TEMPERATURE CONTROL PANEL; TRAFFIC CONTROL PLAN
TD	TOWEL DISPENSER
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE OR TEMPORARY
TER	TERRAZZO
THD	THREAD
THERM	THERMAL
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
THRUOUT	THROUGHOUT
TK BD	TACKBOARD
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TN	TRUE NORTH
TO	TOP OF ___
TO FDN	TOP OF FOUNDATION
TOB	TOP OF BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TR	TOWEL RACK
TRANS	TRANSOM
TRANS WD FIN	TRANSPARENT WOOD FINISH
TRTD	TREATED
TS	TENSILE STRENGTH OR TUBE STEEL
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UC	UNDERCUT
UCD	UNDERCUT DOOR
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
ULT	ULTIMATE
UNFIN	UNFINISH
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VAC	VACUUM
VAR	VARIES
VCT	VINYL COMPOSITION TILE VITRIFIED CLAY TILE
VEH	VEHICLE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFAT	VINYL FACED ACOUSTICAL TILE
VIC	VICINITY
VID	VIDEO
VIF	VERIFY IN FIELD
VNR	VENEER
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VOLT	VOLTAGE
VP	VENEER PLASTER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WIDE OR WEST
W/	WITH
W/O	WITHOUT
WARR	WARRANTY
WBL	WOOD BLOCKING
WC	WALL COVERING OR WATER CLOSET
WC WL HNG	WATER CLOSET, WALL HUNG
WCHR	WATER CHILLER
WCL WL MTD	WATER COOLER, WALL HUNG
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WFAB	WALL FABRIC
WFR	WOOD FRAME
WFS	WOOD FURRING STRIPS
WH	WATER HEATER
WHSE	WAREHOUSE
WLD	WELDED
WM	WIRE MESH
WP	WATERPROOFING
WPD	WATER PRESSURE DROP
WPM	WATERPROOF MEMBRANE
WR	WEATHER RESISTANT
WS	WEATHERSTRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X BRACE	CROSS BRACE
XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)
YD	YARD
YR	YEAR

Revisions: | Date

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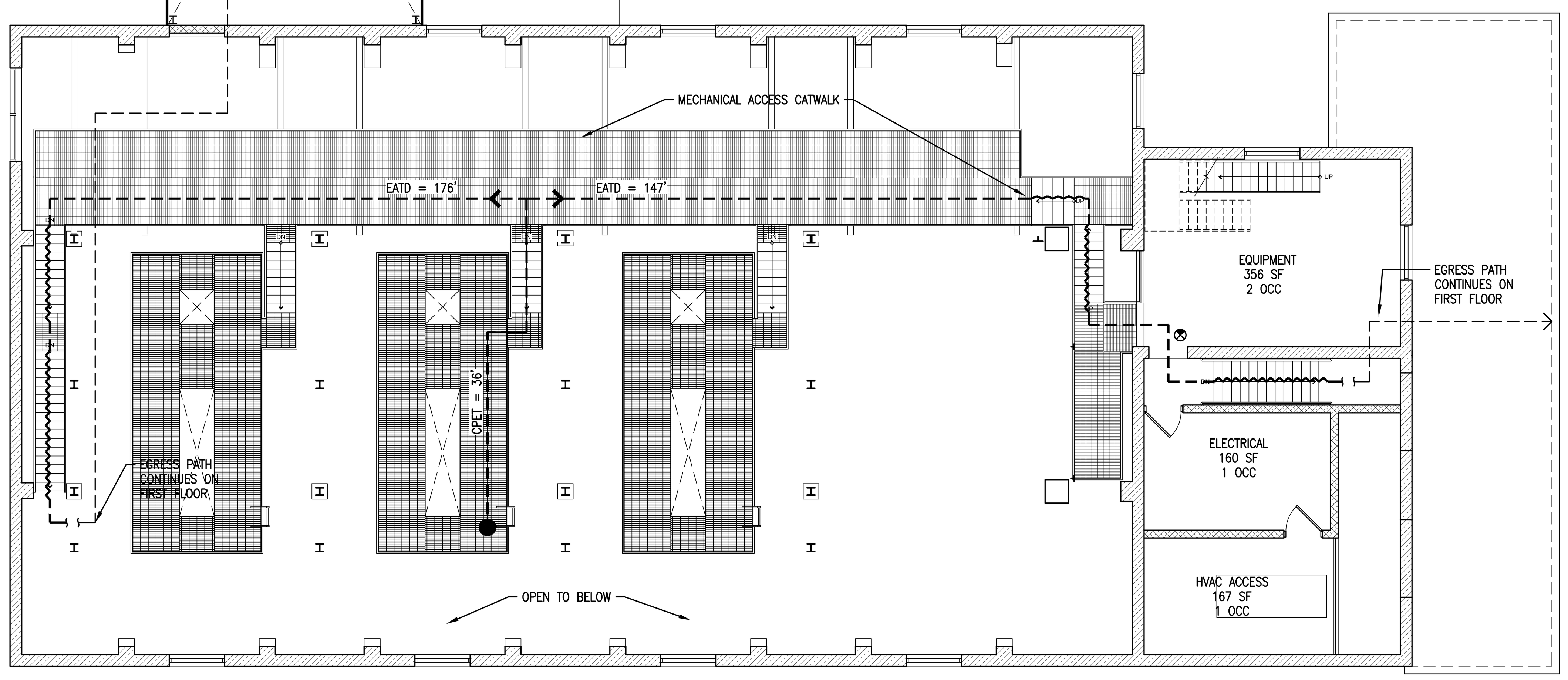
Drawing Title	ABBREVIATIONS
Approved: Project Director	
Project Title	BOILER PLANT UPGRADE PHASE V
Location	VAMC MARTINSBURG, WV
Date	10.22.13
Checked	
Drawn	
Project Number	613-12-501
Building Number	320
Drawing Number	GI002
Dwg.	2 of 44

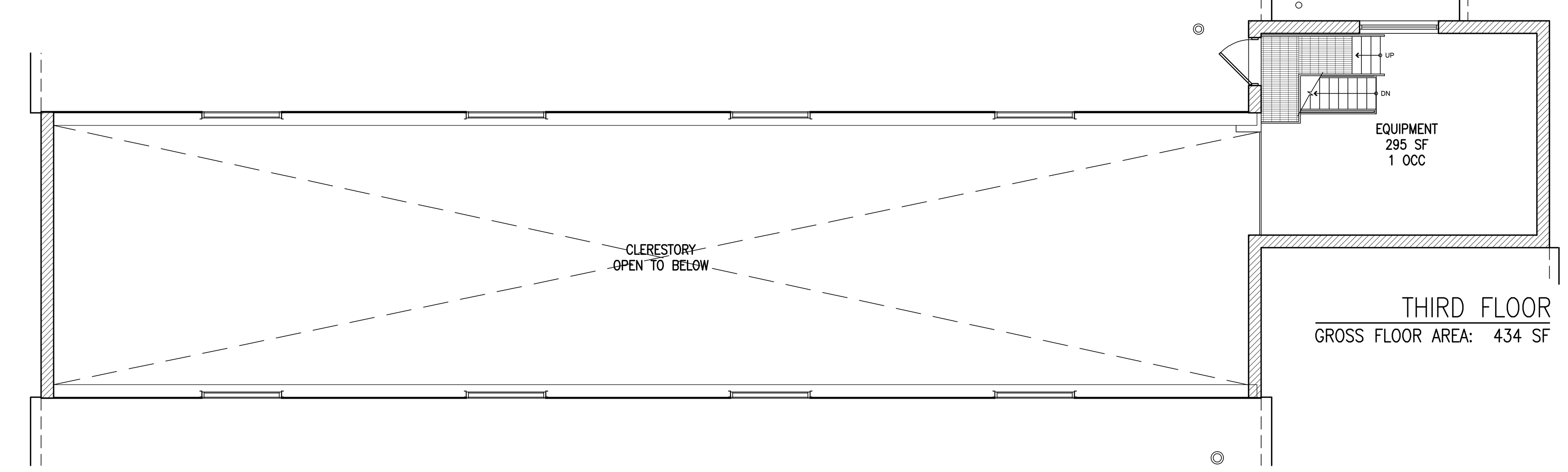
Office of Construction and Facilities Management

Department of Veterans Affairs

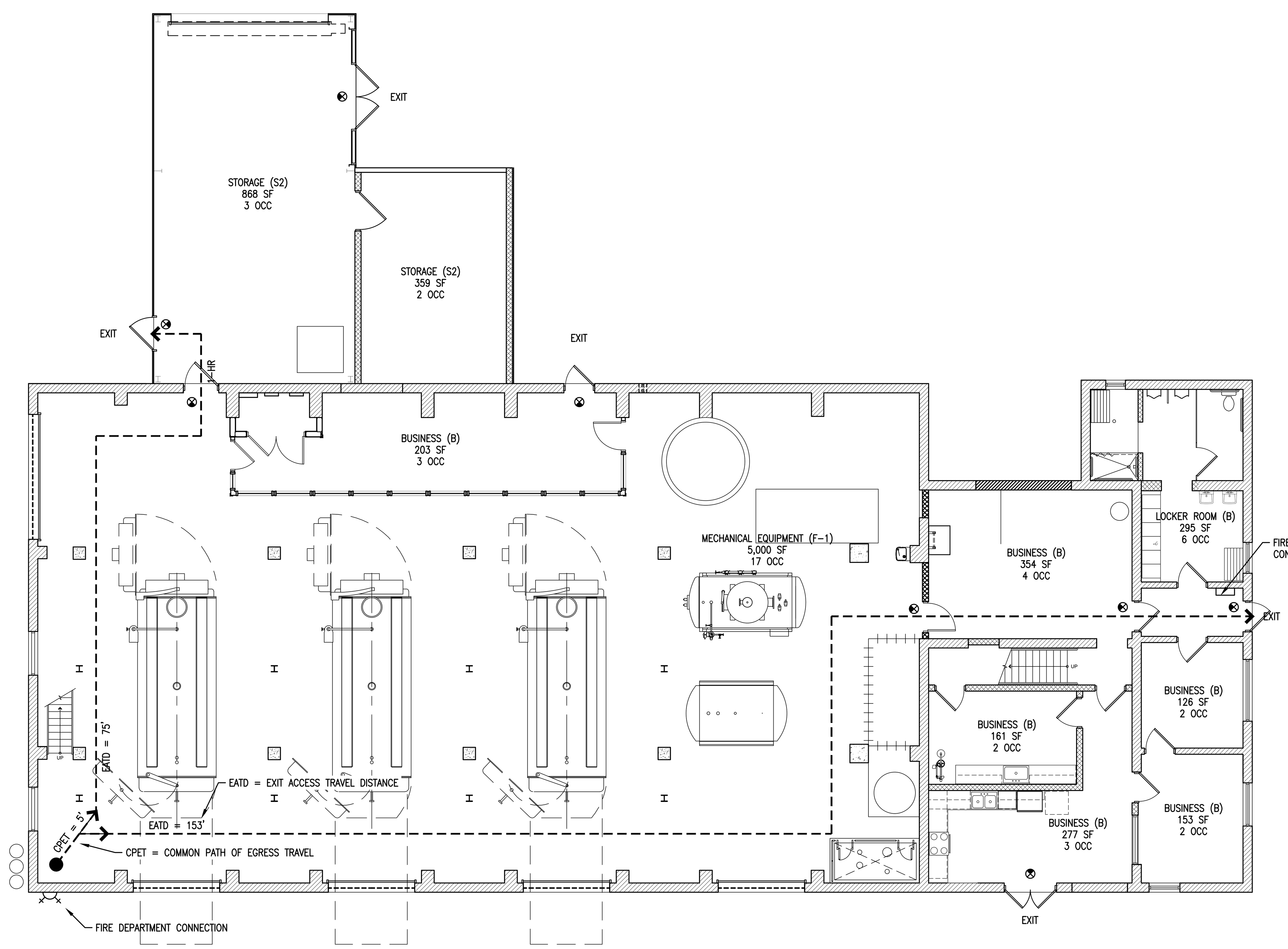
VA FORM 08-6231



SECOND FLOOR
GROSS FLOOR AREA: 1,068 SF



THIRD FLOOR
GROSS FLOOR AREA: 434 SF



GROUND FLOOR
GROSS FLOOR AREA: 8,387 SF

AUTHORITY HAVING JURISDICTION
FIRE CHIEF - VETERANS AFFAIRS MEDICAL CENTER MARTINSBURG, WV

APPLICABLE CODES
VA FIRE PROTECTION DESIGN MANUAL, 6TH ED.
INTERNATIONAL BUILDING CODE 2009 (IBC)
NFPA 101 LIFE SAFETY CODE
NFPA NATIONAL FIRE CODES (EXCEPT NFPA 5000 AND NFPA 900)
OSHA STANDARDS

USE AND OCCUPANCY
FACTORY INDUSTRIAL F-1 MODERATE HAZARD OCCUPANCY (IBC)

FACTORY INDUSTRIAL F-1 MODERATE HAZARD OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE FOR ASSEMBLING, DISASSEMBLING, FABRICATING, FINISHING, MANUFACTURING, PACKAGING, REPAIR, OR PROCESSING OPERATIONS THAT ARE NOT CLASSIFIED AS A GROUP H HAZARD OCCUPANCY.

BOILER PLANT IS NOT LISTED UNDER ANY OF THE OCCUPANCY CATEGORIES IN IBC CHAPTER 2. F-1 MODERATE HAZARD MOST NEARLY RESEMBLES THE OCCUPANCY OF THE BOILER PLANT, BECAUSE IT CONTAINS ELECTRIC GENERATING PLANTS, AND OTHER MANUFACTURING USES THAT INVOLVE LARGE FUEL-BURNING EQUIPMENT.

THE BOILER PLANT IS NOT CLASSIFIED AS A HIGH HAZARD GROUP H:

IBC 307.1 HIGH-HAZARD GROUP H […]
EXCEPTIONS: THE FOLLOWING SHALL NOT BE CLASSIFIED AS A GROUP H, BUT SHALL BE CLASSIFIED AS THE OCCUPANCY THAT THEY MOST NEARLY RESEMBLE:
3. CLOSED PIPING SYSTEM CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUIDS OR GASES UTILIZED FOR THE OPERATION OF MACHINERY OR EQUIPMENT.

CONSTRUCTION TYPE
TYPE VB (5B)

BECAUSE A PORTION OF THE BUILDING CONTAINS COMBUSTIBLE CONSTRUCTION (WOOD ROOF FRAMING IN THE 1-STORY PORTION), THE ENTIRE STRUCTURE IS CLASSIFIED AS TYPE VB CONSTRUCTION.

BUILDING HEIGHT AND AREA

TABULAR HEIGHT AND AREA	1 STORY/40 FEET	8,500 SQ.FT.
SPRINKLER INCREASE	1 STORY/20 FEET	8,500 SQ. FT.
ALLOWABLE HEIGHT AND AREA	2 STORIES/60 FEET	17,000 SQ.FT.
ACTUAL HEIGHT AND AREA	1 STORY*/40 FEET	9,889 SQ. FT.

*THE EXISTING BUILDING SHALL BE CONSIDERED A 1-STORY BUILDING, BECAUSE THE UPPER LEVELS FUNCTION AS EQUIPMENT PLATFORMS SERVING THE BOILER ROOM.

FIRE PROTECTION SYSTEMS

THE BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH NFPA 13.

THE BUILDING IS EQUIPPED WITH A FIRE ALARM SYSTEM COMPLYING WITH NFPA 72.

MEANS OF EGRESS
ALL MEANS OF EGRESS SHALL MEET THE REQUIREMENTS OF IBC 2009 CHAPTER 10.

OCCUPANT LOAD
MAXIMUM FLOOR AREA PER OCCUPANT (SF) (TABLE 1004.1.1)

STORAGE	300 GROSS
MECHANICAL EQUIPMENT ROOM	300 GROSS
BUSINESS AREAS	100 GROSS
LOCKER ROOM	50 GROSS

EGRESS WIDTH

STAIRWAYS	0.3 IN/OCCUPANT
OTHER	0.2 IN/OCCUPANT
DOORWAY CLEAR WIDTH	32 IN (MIN)
DOOR ENCROACHMENT (FULLY-OPENED)	7 IN MAX
DOOR ENCROACHMENT (IN ANY POSITION)	1/2 REQUIRED WIDTH
CORRIDORS	44 IN
STAIRWAY (50+ OCCUPANTS)	44 IN
STAIRWAY (<50 OCCUPANTS)	36 IN
RAMPS	36 IN
DEAD END CORRIDORS-F- SPRINKLER	50 FT MAX

EXIT ACCESS TRAVEL DISTANCE
GROUP F-1 SPRINKLER — 250 FT MAX

COMMON PATH OF EGRESS TRAVEL
GROUP F, SPRINKLER — 100 FT MAX

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
GROUP F — 49 OCCUPANTS MAX

EXIT ACCESS ARRANGEMENT
FOR BUILDINGS WITH SPRINKLER SYSTEM, SEPARATION DISTANCE OF EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE NOT LESS THAN 1/3 THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED. [§1015.2.1 EXCEPTION 2.]

SYMBOLS AND ABBREVIATIONS

⊗ EXIT (ILLUMINATED)

Revisions: | Date

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Drawing Title: LIFE SAFETY DRAWING
Approved: Project Director
Project Title: BOILER PLANT UPGRADE PHASE V
Location: VAMC MARTINSBURG, WV
Date: 10.22.13
Checked
Drawn
Project Number: 613-12-501
Building Number: 320
Drawing Number: GI003
Dwg. 3 of 44

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

SCOPE OF WORK:

ABATEMENT OF HAZARDOUS MATERIALS SHALL BE CARRIED OUT ONLY WHERE THE ELEMENTS CONTAINING HAZARDOUS MATERIALS ARE DISTURBED, REMOVED, OR ALTERED.

ELEMENTS CONTAINING HAZARDOUS MATERIALS THAT ARE NOT DISTURBED, REMOVED, OR ALTERED AS PART OF THE PROJECT SHALL REMAIN IN PLACE.

SEE DEMOLITION DRAWINGS FOR COORDINATION.

ASBESTOS–CONTAINING MATERIALS:

THE FOLLOWING SYSTEMS OR ITEMS HAVE BEEN SAMPLED AND CONFIRMED TO CONTAIN ASBESTOS (ALSO SEE ASBESTOS SURVEY AND SAMPLING DRAWINGS HA101–HA104):

1. STEAM HEADER
2. CONDENSATE RETURN
3. STEAM SUPPLY TO FIRE HOUSE BETWEEN BOILERS 1 & 2
4. PUMPED CONDENSATE RETURN
5. IN–HOUSE STEAM SUPPLY
6. H. P. STEAM SUPPLY TO THE FIRE DEPARTMENT
7. BOILER FEED – SOUTH WALL
8. FORCED DRAFT FAN ROPE GASKET
9. BOILER BREECHINGS
10. BOILER STACKS
11. NOT USED
12. NOT USED
13. NOT USED
14. ROOFING ASPHALT
15. FLASHING ASPHALT
16. NOT USED

NO ASBESTOS WAS DETECTED IN THE SAMPLES COLLECTED FROM THE FOLLOWING:

1. DEAERATOR TANK AND ITS CANVAS JACKET
2. SURGE TANK.

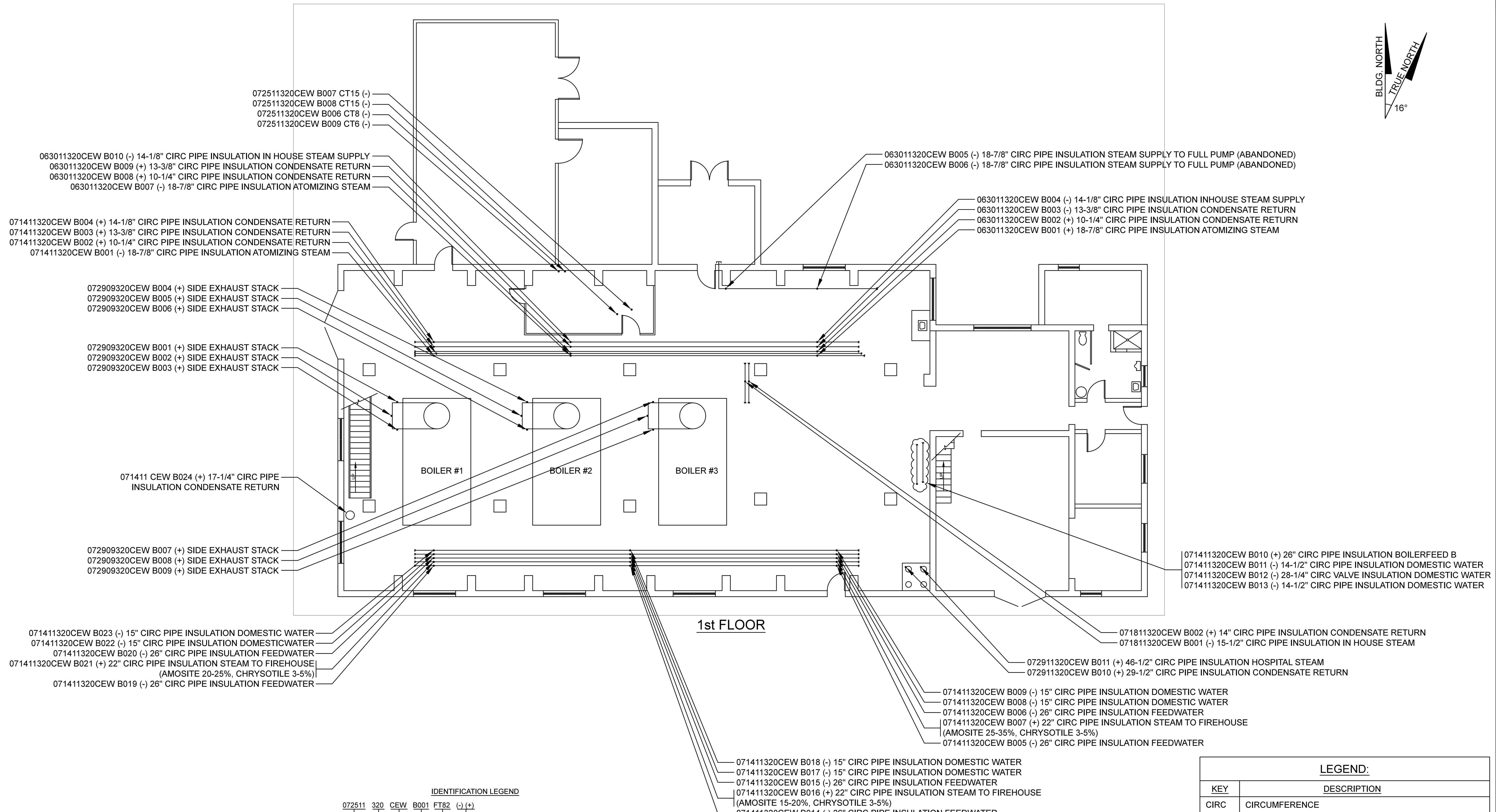
EXISTING PIPE INSULATION SHALL BE REMOVED IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 11 TRADITIONAL ASBESTOS ABATEMENT AND SECTION 02 82 13.13 GLOVEBAG ASBESTOS ABATEMENT.

ROOFING MATERIALS ARE CLASSIFIED AS CATEGORY I NONFRIABLE ASBESTOS–CONTAINING MATERIAL.

CONTRACTOR SHALL COMPLY WITH THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) – EPA'S RULE TO CONTROL EMISSIONS OF ASBESTOS TO THE ENVIRONMENT (40 CFR PART 61, SUBPART M).

LEAD–BASED PAINT

1. DUE TO THE AGE OF THE BOILER HOUSE IT IS LIKELY THAT SOME OF THE EXISTING BUILDING MATERIALS, MECHANICAL SYSTEM COMPONENTS, PLUMBING AND PIPING ARE COATED WITH PAINT THAT CONTAINS LEAD. IF CONTRACTOR MUST CUT, BURN, ABRADE, USE ABRASIVE BLASTING, OR OTHERWISE CREATE DUST, OR FUME BY WORKING ON PAINTED SURFACES THE CONTRACTOR SHALL HAVE THE PAINT SAMPLED AND ANALYZED AT AN AIHA ACCREDITED LABORATORY FOR LEAD.
2. CONTRACTOR SHALL SUBMIT THE CHAIN OF CUSTODY FORM AND THE LABORATORY REPORT TO THE VPIH/CIH FOR REVIEW.
3. IF THE PAINT CONTAINS LEAD THE CONTRACTOR SHALL COMPLY WITH THE OSHA CONSTRUCTION LEAD STANDARD 29 CFR 1926.62.
4. CONTRACTOR SHALL DEVELOP A WRITTEN COMPLIANCE PROGRAM TO ACHIEVE COMPLIANCE WITH 29 CFR 1926.62 AND SUBMIT THE PLAN TO THE VPIH/CIH FOR REVIEW AND APPROVAL.
5. ONCE APPROVED, CONTRACTOR SHALL IMPLEMENT THE COMPLIANCE PROGRAM AND SUBMIT COPIES OF ALL EXPOSURE MONITORING DATA TO THE VPIH/CIH FOR REVIEW.
6. CONTRACTOR SHALL COLLECT SUFFICIENT REPRESENTATIVE SAMPLES OF THE WASTE STREAM AND SUBMIT FOR TOXICITY CHARACTERISTIC LEACHING PROCEDURE ANALYSIS (TCLP) TO DETERMINE IF WASTE IS CONSIDERED HAZARDOUS (LEAD). IF THE WASTE IS CONSIDERED HAZARDOUS, THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT OF THE CONDITION. IF THE WASTE IS NOT CONSIDERED HAZARDOUS, THE CONTRACTOR SHALL DISPOSE AS REGULAR CONSTRUCTION WASTE.



IDENTIFICATION LEGEND

072511 320 CEW B001 FT82 (-) (+)

- 072511 — DATE SAMPLE TAKEN
- 320 — BUILDING OR AREA SAMPLE TAKEN
- CEW — INITIALS OF LICENSE W.V. ASBESTOS INSPECTOR
- B001 — BULK SAMPLE NUMBER
- FT82 — MATERIAL IDENTIFICATION NUMBER
- (-) (+) — NEGATIVE OR POSITIVE (> 1% CONTAINING ASBESTOS)

LEGEND:

KEY	DESCRIPTION
CIRC	CIRCUMFERENCE
CT5	2' X 4' RANDOM PUNCH MARKS & PIN HOLES
CT6	2' X 4' CEILING TILE HOLES PUNCHED IN SWIRL PATTERN
CT8	2' X 4' CEILING TILE TEXTURED W/PIN HOLES
CT15	2' X 4' CEILING TILE W/PIN HOLES & SCREW DRIVER PUNCH MARKS STRAIGHT & PHILLIPS
FT82	12" X 12" FLOOR TILE BEIGE FLAKE W/CREAM & BROWN STREAKS
FT82M	MASTIC FOR F82 (BLACK)
HPS	HIGH PRESSURE STEAM

Rev	Explanation & Initials	IH/CAD	Date
0	As - Built Conditions	CEW/CJZ	7/11/11

Professional Seal

SCALE: 3/32" = 1' - 0"

Drawing Title: ASBESTOS SAMPLING

Project Title: BUILDING 320 - BOILER PLANT

Date: 7/11/2011

Project No.

Approved:

Approved:

Building Number: 320 | Checked: CEW | Drawn: CJZ

Location: VAMC, MARTINSBURG WV

Dwg. 1 of 3

VAMC, MARTINSBURG

Department of Veterans Affairs

VA

VA FORM 08-6231, OCT 1978

Revisions: | Date

CONSULTANTS:

STATE OF WEST VIRGINIA · MARK D SHERMEYER · REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

SAA architects

600 North Hartley Street, Suite 150
T 717.843.3200 F 717.699.0205
York, PA 17404
www.saaarchitects.com

Drawing Title: FIRST FLOOR HAZARDOUS MATERIALS

Approved: Project Director

Project Title: BOILER PLANT UPGRADE PHASE V

Location: VAMC MARTINSBURG, WV

Date: 10.22.13 | Checked | Drawn

Project Number: 613–12–501

Building Number: 320

Drawing Number: 320–HA101

Dwg. 4 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

/Volumes/Groups/saa/Project Files-active/VA Martinsburg - IDIQ Boiler Plant Upgrade 12-8103 PH5/05 Drawings/HA101.dwg, Tue Oct 22 14:44:54 2013

SCOPE OF WORK:

ABATEMENT OF HAZARDOUS MATERIALS SHALL BE CARRIED OUT ONLY WHERE THE ELEMENTS CONTAINING HAZARDOUS MATERIALS ARE DISTURBED, REMOVED, OR ALTERED.

ELEMENTS CONTAINING HAZARDOUS MATERIALS THAT ARE NOT DISTURBED, REMOVED, OR ALTERED AS PART OF THE PROJECT SHALL REMAIN IN PLACE.

SEE DEMOLITION DRAWINGS FOR COORDINATION.

ASBESTOS–CONTAINING MATERIALS:

THE FOLLOWING SYSTEMS OR ITEMS HAVE BEEN SAMPLED AND CONFIRMED TO CONTAIN ASBESTOS (ALSO SEE ASBESTOS SURVEY AND SAMPLING DRAWINGS HA101–HA104):

1. STEAM HEADER
2. CONDENSATE RETURN
3. STEAM SUPPLY TO FIRE HOUSE BETWEEN BOILERS 1 & 2
4. PUMPED CONDENSATE RETURN
5. IN–HOUSE STEAM SUPPLY
6. H. P. STEAM SUPPLY TO THE FIRE DEPARTMENT
7. BOILER FEED – SOUTH WALL
8. FORCED DRAFT FAN ROPE GASKET
9. BOILER BREECHINGS
10. BOILER STACKS
11. NOT USED
12. NOT USED
13. NOT USED
14. ROOFING ASPHALT
15. FLASHING ASPHALT
16. NOT USED

NO ASBESTOS WAS DETECTED IN THE SAMPLES COLLECTED FROM THE FOLLOWING:

1. DEAERATOR TANK AND ITS CANVAS JACKET
2. SURGE TANK.

EXISTING PIPE INSULATION SHALL BE REMOVED IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 11 TRADITIONAL ASBESTOS ABATEMENT AND SECTION 02 82 13.13 GLOVEBAG ASBESTOS ABATEMENT.

ROOFING MATERIALS ARE CLASSIFIED AS CATEGORY I NONFRIABLE ASBESTOS–CONTAINING MATERIAL.

CONTRACTOR SHALL COMPLY WITH THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) – EPA'S RULE TO CONTROL EMISSIONS OF ASBESTOS TO THE ENVIRONMENT (40 CFR PART 61, SUBPART M).

LEAD–BASED PAINT

1. DUE TO THE AGE OF THE BOILER HOUSE IT IS LIKELY THAT SOME OF THE EXISTING BUILDING MATERIALS, MECHANICAL SYSTEM COMPONENTS, PLUMBING AND PIPING ARE COATED WITH PAINT THAT CONTAINS LEAD. IF CONTRACTOR MUST CUT, BURN, ABRADE, USE ABRASIVE BLASTING, OR OTHERWISE CREATE DUST, OR FUME BY WORKING ON PAINTED SURFACES THE CONTRACTOR SHALL HAVE THE PAINT SAMPLED AND ANALYZED AT AN AIHA ACCREDITED LABORATORY FOR LEAD.
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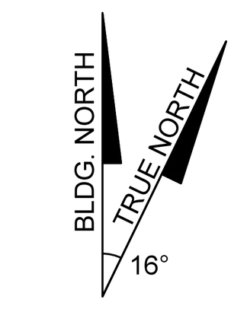

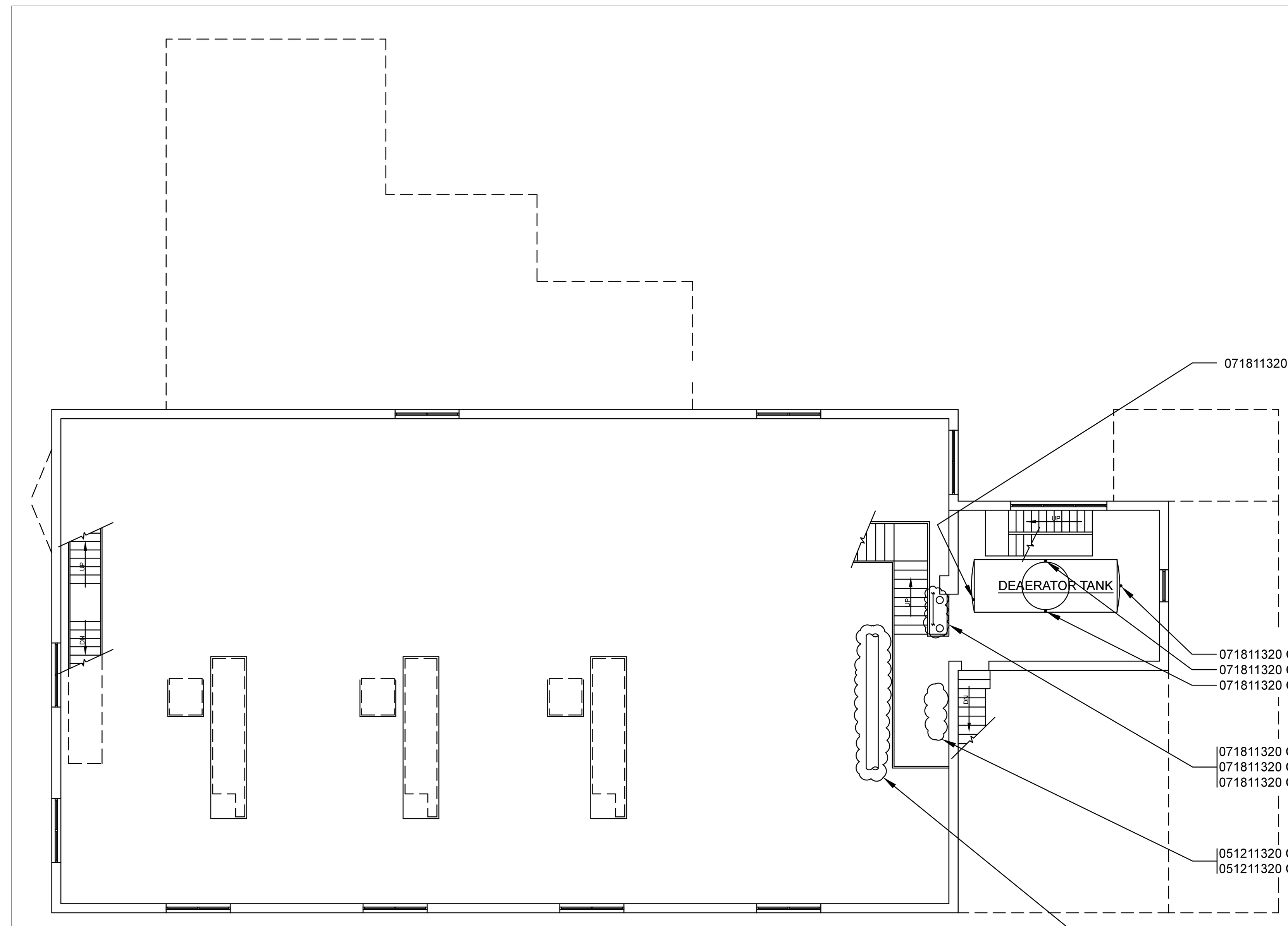

071811320 CEW B006 (-) DEAERATOR TANK

071811320 CEW B009 (-) DEAERATOR TANK
071811320 CEW B008 (-) DEAERATOR TANK
071811320 CEW B007 (-) DEAERATOR TANK

071811320 CEW B003 (+) 14" CIRC PIPE INSULATION PUMPED CONDENSATE RETURN
071811320 CEW B004 (-) 15-3/4" CIRC PIPE INSULATION GRAVITY CONDENSATE RETURN
071811320 CEW B005 (+) 12-1/4" CIRC PIPE INSULATION PUMPED CONDENSATE RETURN

051211320 CEW B001 GASKET (-) PRESSURE REGULATOR "B" SIDE (EAST)
051211320 CEW B002 GASKET (-) PRESSURE REGULATOR "B" SIDE (WEST)

2nd FLOOR

071511320 CEW B007 (-) 22-1/4" CIRC PIPE INSULATION IN HOUSE STEAM
071511320 CEW B008 (-) 22-1/4" CIRC PIPE INSULATION HPS
071511320 CEW B009 (-) 46-1/4" CIRC PIPE INSULATION DA HEATER HEADER VALVE
071511320 CEW B010 (-) 28-1/4" CIRC PIPE INSULATION DA HEATER HPS
071511320 CEW B011 (-) 28-1/4" CIRC PIPE INSULATION FROM MAIN HEADER HPS
071511320 CEW B012 (-) 22-1/2" CIRC PIPE INSULATION ATOMIZER STEAM HPS
071511320 CEW B013 (-) 22-1/2" CIRC PIPE INSULATION AIR HANDLER HPS
071511320 CEW B014 (-) 22-1/2" CIRC PIPE INSULATION HIGH PRESSURE WHISTLE
071511320 CEW B015 (-) 22-1/2" CIRC PIPE INSULATION HPS
071511320 CEW B016 (-) 22-1/2" CIRC PIPE INSULATION HPS
071511320 CEW B017 (-) 31-1/2" CIRC PIPE INSULATION HEADER

IDENTIFICATION LEGEND

072511 320 CEW B001 FT82 (-) (+)

- DATE SAMPLE TAKEN
- BUILDING OR AREA SAMPLE TAKEN
- INITIALS OF LICENSE W.V. ASBESTOS INSPECTOR
- BULK SAMPLE NUMBER
- MATERIAL IDENTIFICATION NUMBER
- NEGATIVE OR POSITIVE (> 1% CONTAINING ASBESTOS)

LEGEND:

KEY	DESCRIPTION
CIRC	CIRCUMFERENCE
CT5	2' X 4' RANDOM PUNCH MARKS & PIN HOLES
CT6	2' X 4' CEILING TILE HOLES PUNCHED IN SWIRL PATTERN
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FT82	12" X 12" FLOOR TILE BEIGE FLAKE W/CREAM & BROWN STREAKS
FT82M	MASTIC FOR F82 (BLACK)
HPS	HIGH PRESSURE STEAM

Rev	Explanation & Initials	IH/CAD	Date
0	As - Built Conditions	CEW/CJZ	7/11/11

Professional Seal

SCALE: 3/32" = 1' - 0"

Drawing Title: ASBESTOS SAMPLING
Approved:
Approved:

Project Title: BUILDING 320 - BOILER PLANT
Building Number: 320 | Checked: CEW | Drawn: KAG
Location: VAMC, MARTINSBURG WV

Date: 7/11/2011
Project No.
Dwg. 2 of 3

VAMC, MARTINSBURG
Department of Veterans Affairs
VA

VA FORM 08-6231, OCT 1978

Revisions:	Date

CONSULTANTS:

STATE OF WEST VIRGINIA · MARK D SHERMETARO · No. 4409 · REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

SAAarchitects
600 North Hartley Street, Suite 150
T 717.843.3200 F 717.699.0205
York, PA 17404
www.saaarchitects.com

Drawing Title: SECOND FLOOR HAZARDOUS MATERIALS
Approved: Project Director

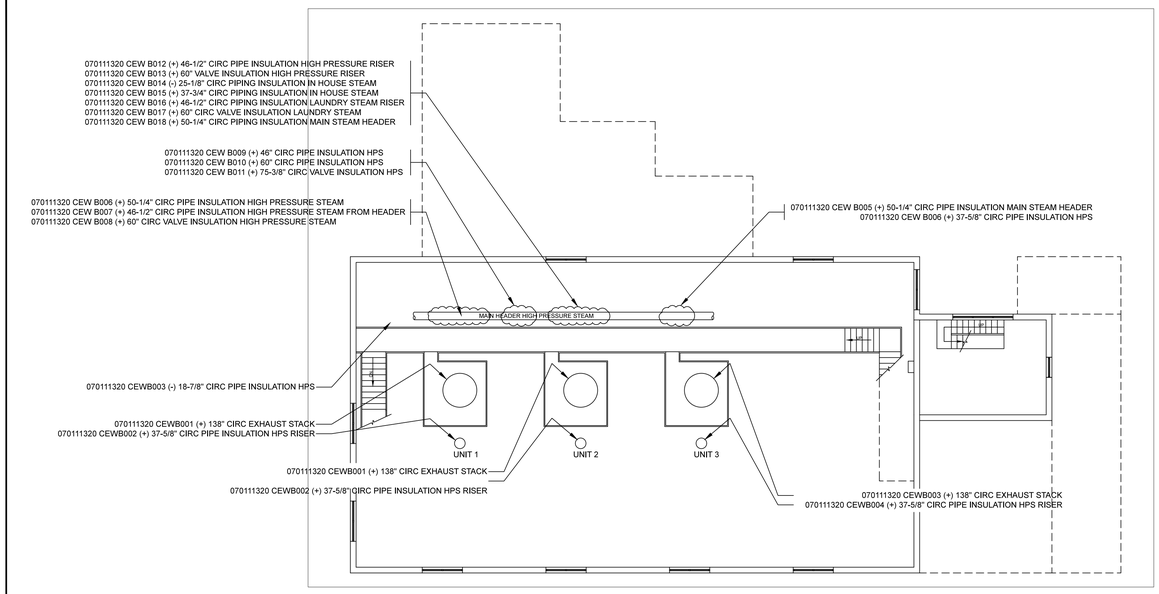
Project Title: BOILER PLANT UPGRADE PHASE V
Location: VAMC MARTINSBURG, WV
Date: 10.22.13 | Checked | Drawn

Project Number: 613–12–501
Building Number: 320
Drawing Number: 320–HA102
Dwg. 5 of 44

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08–6231

/Volumes/Groups/saa/Project Files-active/VA Martinsburg - IDIQ Boiler Plant Upgrade 12-8103 PH5/05 Drawings/HA102.dwg, Tue Oct 22 14:45:49 2013



3rd FLOOR

BLDG. NORTH
TRUE NORTH
16°

IDENTIFICATION LEGEND

072511 320 CEW B001 FT82 (-) (+)

- DATE SAMPLE TAKEN
- BUILDING OR AREA SAMPLE TAKEN
- INITIALS OF LICENSE W.V. ASBESTOS INSPECTOR
- BULK SAMPLE NUMBER
- MATERIAL IDENTIFICATION NUMBER
- NEGATIVE OR POSITIVE (> 1% CONTAINING ASBESTOS)

LEGEND:

KEY	DESCRIPTION
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FT82	12" X 12" FLOOR TILE BEIGE FLAKE W/CREAM & BROWN STREAKS
FT82M	MASTIC FOR F82 (BLACK)
HPS	HIGH PRESSURE STEAM

Rev	Explanation & Initials	IH/CAD	Date
1	As - Built Conditions	CEW/CJZ	7/11/11

Professional Seal

SCALE: 3/32" = 1' - 0"

Drawing Title: ASBESTOS SAMPLING

Project Title: BUILDING 320 - BOILER PLANT

Date: 7/11/11

Project No.:

Approved:

Building Number: 320

Checked: CEW

Drawn: KAG

Approved:

Location: VAMC, MARTINSBURG WV

Dwg. 3 of 3

VAMC, MARTINSBURG

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

SCOPE OF WORK:

ABATEMENT OF HAZARDOUS MATERIALS SHALL BE CARRIED OUT ONLY WHERE THE ELEMENTS CONTAINING HAZARDOUS MATERIALS ARE DISTURBED, REMOVED, OR ALTERED.

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10. BOILER STACKS
11. NOT USED
12. NOT USED
13. NOT USED
14. ROOFING ASPHALT
15. FLASHING ASPHALT
16. NOT USED

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2. SURGE TANK.

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LEAD-BASED PAINT

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Revisions:	Date

CONSULTANTS:

MARK D SHEPHERD LICENSED ARCHITECT STATE OF WEST VIRGINIA

ARCHITECT/ENGINEERS:

SAA architects
600 North Hartley Street, Suite 150 York, PA 17404
T 717.843.3200 F 717.699.0205
www.saaarchitects.com

Drawing Title: THIRD FLOOR HAZARDOUS MATERIALS

Approved: Project Director

Project Title: BOILER PLANT UPGRADE PHASE V

Location: VAMC MARTINSBURG, WV

Date: 10.22.13 Checked: Drawn:

Project Number: 613-12-501

Building Number: 320

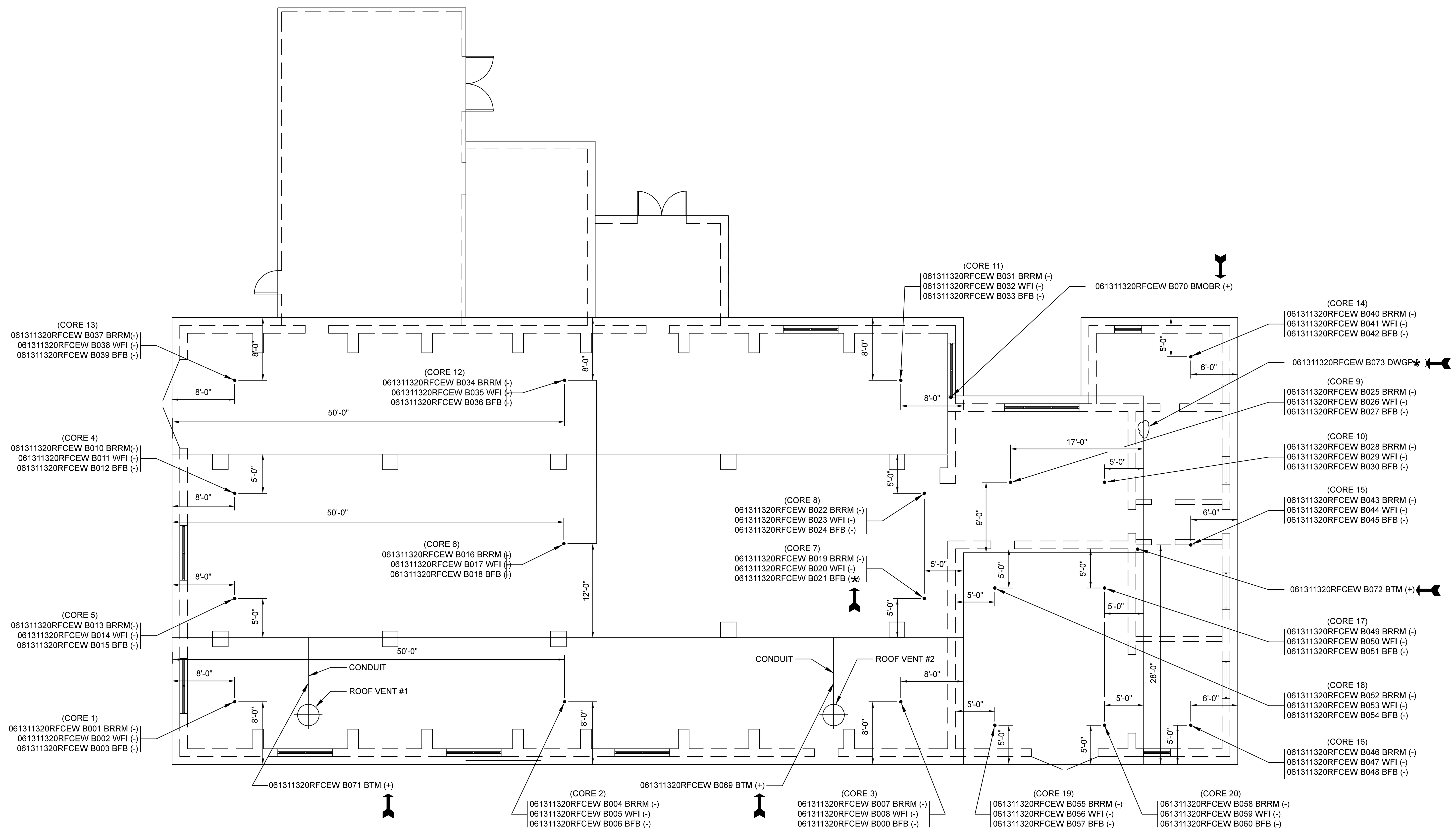
Drawing Number: 320-HA103

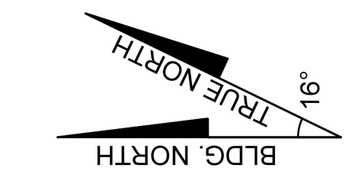
Dwg. 6 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231





SCOPE OF WORK:

ABATEMENT OF HAZARDOUS MATERIALS SHALL BE CARRIED OUT ONLY WHERE THE ELEMENTS CONTAINING HAZARDOUS MATERIALS ARE DISTURBED, REMOVED, OR ALTERED.

ELEMENTS CONTAINING HAZARDOUS MATERIALS THAT ARE NOT DISTURBED, REMOVED, OR ALTERED AS PART OF THE PROJECT SHALL REMAIN IN PLACE.

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ASBESTOS–CONTAINING MATERIALS:

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10. BOILER STACKS
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12. NOT USED
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15. FLASHING ASPHALT
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NO ASBESTOS WAS DETECTED IN THE SAMPLES COLLECTED FROM THE FOLLOWING:

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* LESS THEN 1% CHRYSOTILE

SAMPLE IDENTIFICATION LEGEND

061311 320RF CEW B072 BTM (+) (-)

- 061311 — DATE SAMPLE TAKEN
- 320RF — BUILDING OR AREA SAMPLE TAKEN
- CEW — INITIALS OF LICENSE W.V. ASBESTOS INSPECTOR
- B072 — BULK SAMPLE NUMBER
- BTM — MATERIAL IDENTIFICATION
- (+) (-) — NEGATIVE OR POSITIVE (> 1% CONTAINING ASBESTOS)

LEGEND:

KEY	DESCRIPTION
BRRM	BLACK RUBBER ROOF MEMBRANE (CORE)
WFI	WHITE FOAM INSULATION (CORE)
BFB	BROWN FIBER BOARD (CORE)
BTOBFB	BLACK TAR ON BROWN FIBER BOARD (CORE)
FM	FLASHING MASTIC
BMOBR	BLACK MASTIC ON BLACK RUBBER
DWGP	DEBRIS/WINDOW GLAZING PUTTY
SRP	SIVER ROOF PAINT
BTM	BLACK TAR MASTIC

Rev	Explanation & Initials		Date
0	As-Built Conditions	CEW/CJZ	06/20/2011

Professional Seal

SCALE: 1/8" = 1' - 0"

Drawing Title: ASBESTOS SURVEY

Project Title: BUILDING 320 ROOF SAMPLING

Date: 06/20/2011

Project No.

Approved:

Approved:

Building Number: 320 | Checked: CEW | Drawn: CJZ

Location: VAMC, MARTINSBURG WV

Dwg. 1 of 1

VAMC, MARTINSBURG

Department of Veterans Affairs

VA

VA FORM 08-6231, OCT 1978

Revisions:	Date

CONSULTANTS:

STATE OF WEST VIRGINIA · MARK D SHERMEYER · REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

SAA architects

600 North Hartley Street, Suite 150 York, PA 17404
T 717.843.3200 F 717.699.0205 www.saaarchitects.com

Drawing Title: ROOF LEVEL HAZARDOUS MATERIALS

Approved: Project Director

Project Title: BOILER PLANT UPGRADE PHASE V

Location: VAMC MARTINSBURG, WV

Date: 10.22.13 | Checked | Drawn

Project Number: 613–12–501

Building Number: 320

Drawing Number: 320–HA104

Dwg. 7 of 44

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

/Volumes/Groups/saa/Project Files-active/VA Martinsburg - IDIQ Boiler Plant Upgrade 12-8103 PH5/05 Drawings/HA104.dwg, Tue Oct 22 14:49:00 2013